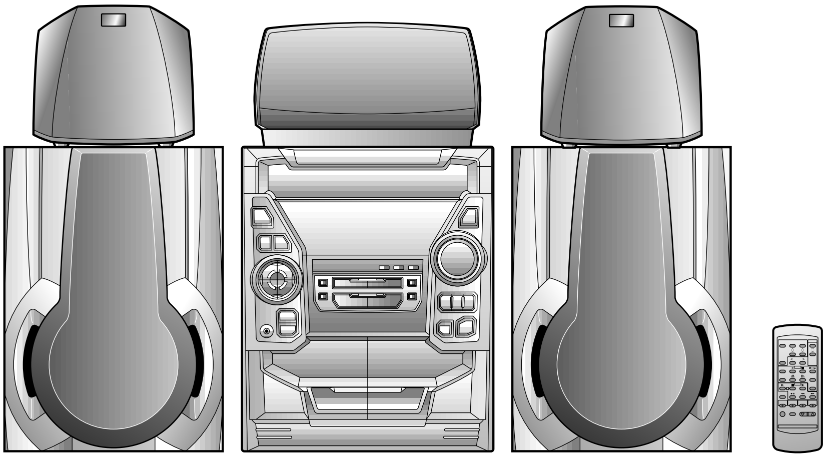
SHARP SERVICE MANUAL

No. S2015CDPC3500



CD-PC3500

COMPACT disc DIGITAL AUDIO

DOLBY SURROUND PRO • LOGIC

Manufactured under license from Dolby Laboratories Licensing Corporation.
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CD-PC3500 Mini Component System consisting of PC3500 (main unit), CP-C3500 (front speakers), GBOXS0036AWM1 (center speaker) and GBOXS0037AWM1 (rear speakers).

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

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SHARP CORPORATION

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

IMPORTANT SERVICE NOTES (FOR U.S.A. ONLY)

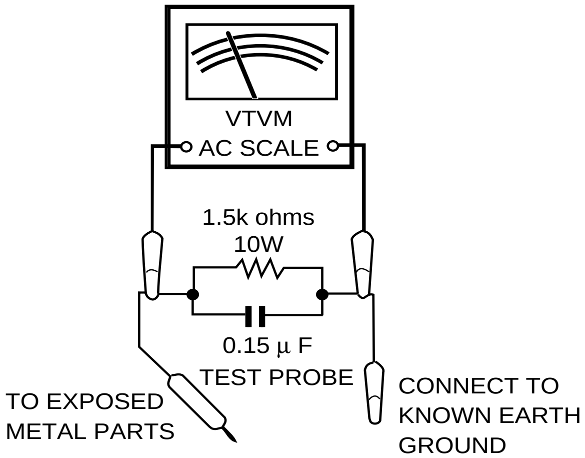
BEFORE RETURNING THE AUDIO PRODUCT

(Fire & Shock Hazard)

Before returning the audio product to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the audio product.
2. Inspect all protective devices such as insulating materials, cabinet, terminal board, adjustment and compartment covers or shields, mechanical insulators etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.

* Plug the AC line cord directly into a 120 volt AC outlet.
* Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15µF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as conduit or electrical ground connected to earth ground.
* Use a VTVM or VOM with 1000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor (See diagram).
* Connect the resistor connection to all exposed metal parts having a return path to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.



All check must be repeated with the AC line cord plug connection reversed.

Any reading of 0.3 volt RMS (this corresponds to 0.2 milliamp. AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the audio product to the owner.

SPECIFICATIONS

CD-PC3500

● General

Power source:	AC 120 V, 60 Hz
Power consumption:	150 W
Dimensions:	Width; 10-5/8" (270 mm) Height; 13" (330 mm) Depth; 14" (355 mm)
Weight:	18.2 lbs. (8.3 kg)

● Amplifier section

Output power:	**Front speakers;** 60 W minimum RMS into 6 ohms from 60 Hz to 20 kHz with no more than 10 % total harmonic distortion. **Center speaker;** RMS; 30 W (1 kHz, 10 % T.H.D.) **Rear speakers;** RMS; 30 W (total) (1 kHz, 10 % T.H.D.)
Output terminals:	Front speakers; 6 ohms Center speaker; 6 ohms Rear speakers; 12 ohms Subwoofer; 47 k ohms Headphones; 16-50 ohms (recommended; 32 ohms) CD digital output (optical)
Input terminals:	Video/Auxiliary (audio signal) × 2; 500 mV/47 k ohms

● Compact disc player section

Type:	3-disc multi-play compact disc player
Signal readout:	Non-contact, 3-beam semi-conductor laser pickup
D/A converter:	1-bit D/A converter
Frequency response:	20 - 20,000 Hz
Dynamic range:	90 dB (1 kHz)

● Tuner section

Frequency range:	FM; 87.5-108 MHz AM; 530-1,720 kHz

● Cassette deck section

Frequency response:	50-14,000 Hz (Normal tape)
Signal/noise ratio:	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/playback)
Wow and flutter:	0.3 % (WRMS)

● Front speaker section

CP-C3500

Type:	3-way type [5-1/4" (13 cm) woofer, 2" (5 cm) tweeter and super tweeter]
Maximum input power:	120 W
Rated input power:	60 W
Impedance:	6 ohms
Dimensions:	Width; 9-1/2" (240 mm) Height; 13" (330 mm) Depth; 10-1/16" (255 mm)
Weight:	8.5 lbs. (3.9 kg)/each

● Center speaker section

GBOXS0036AWM1

Type:	4" (10 cm) full-range speaker
Maximum input power:	60 W
Rated input power:	30 W
Impedance:	6 ohms
Dimensions:	Width; 10-1/4" (260 mm) Height; 5-1/2" (140 mm) Depth; 6-1/8" (155 mm)
Weight:	2.0 lbs. (0.9 kg)

● Rear speaker section

GBOXS0037AWM1

Type:	4" (10 cm) full-range speaker
Maximum input power:	30 W
Rated input power:	15 W
Impedance:	12 ohms
Dimensions:	Width; 7-7/8" (200 mm) Height; 3-11/16" (93 mm) Depth; 6-3/4" (170 mm)
Weight:	1.1 lbs. (0.5 kg)/each

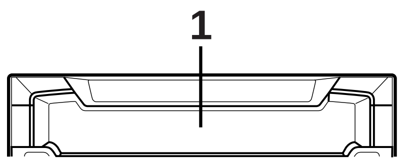
Specifications for this model are subject to change without prior notice.

NAMES OF PARTS

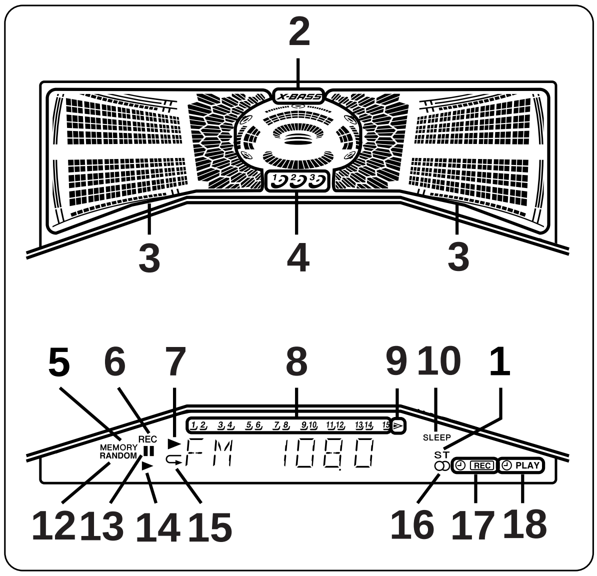
CD-PC3500

■ Front panel

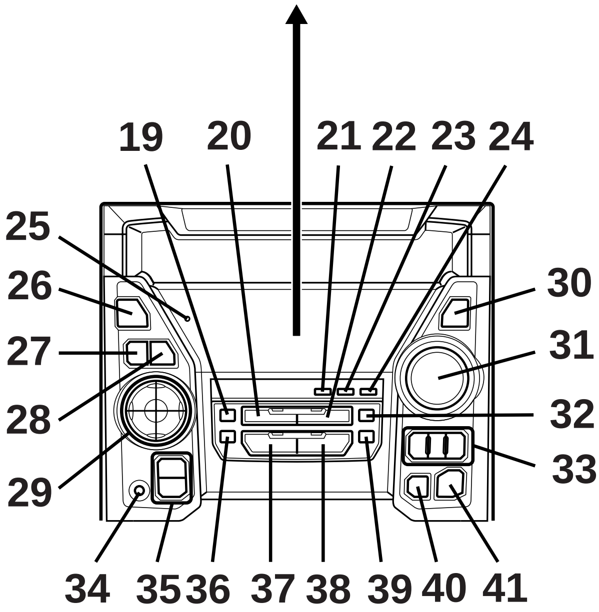
1. (CD) Disc Tray



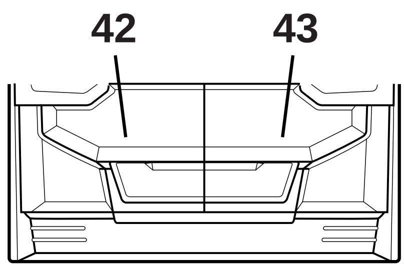
2. Extra Bass Indicator
3. Spectrum Analyzer/Volume Level Indicator
4. (CD) Disc Number Indicators
5. (CD/TUNER) Memory Indicator
6. (TAPE 2) Record Indicator
7. (CD) Play Indicator
8. (CD) Music Schedule Indicators
9. (CD) More Tracks Indicator
10. Sleep Indicator
11. FM Stereo Mode Indicator
12. (CD) Random Play Indicator
13. (CD) Pause Indicator
14. (TAPE) Play Indicator
15. (CD) Repeat Indicator
16. FM Stereo Indicator
17. Timer Record Indicator
18. Timer Play Indicator



19. Memory/Set Button
20. (CD) Track Down/Review Button
(TUNER) Preset Down Button
(TAPE 2) Rewind Button
21. Bypass Button
22. (CD) Track Up/Cue Button
(TUNER) Preset Up Button
(TAPE 2) Fast Forward Button
23. Normal Button
24. Phantom Button
25. Timer Set Indicator
26. On/Stand-by Button
27. Clock Button
28. Timer/Sleep Button
29. Function Selector Buttons
30. Dimmer Button
31. Volume Control
32. Equalizer Mode Selector Button
33. (CD) Disc Number Select Buttons
34. Headphone Jack
35. Tuning/Time Up/Down Buttons
36. (TAPE 2) Record Pause Button
37. (CD/TAPE) Stop Button
38. (CD) Play/Repeat Button
(TAPE) Play Button
39. Extra Bass/Demo Mode Button
40. (CD) Disc Skip Button
41. (CD) Open/Close Button

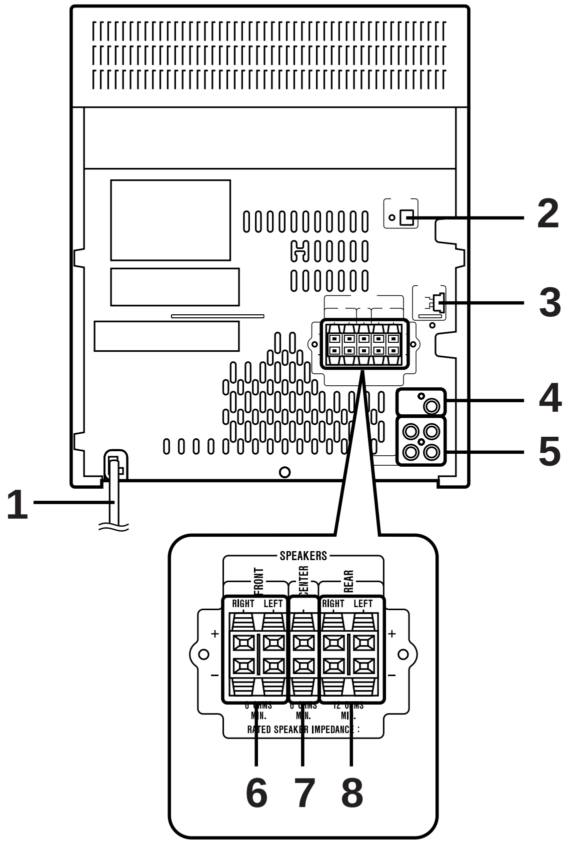


42. (TAPE 1) Cassette Compartment
43. (TAPE 2) Cassette Compartment



■ Rear panel

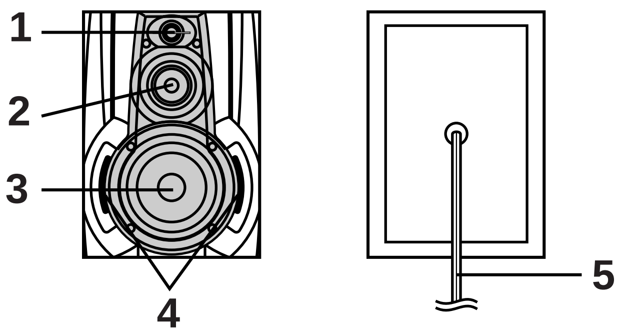
1. AC Power Cord
2. CD Digital Output Jack
3. FM/AM Loop Antenna Jack
4. Subwoofer Output Jack
5. Video/Auxiliary (Audio Signal) Input Jacks
6. Front Speaker Terminals
7. Center Speaker Terminals
8. Rear Speaker Terminals



CP-C3500

■ Front speaker

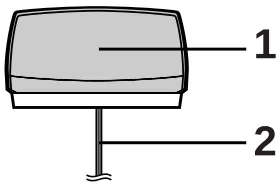
1. Super Tweeter
2. Tweeter
3. Woofer
4. Bass Reflex Ducts
5. Speaker Wire



GBOXS0036AWM1

■ Center speaker

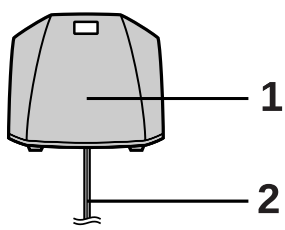
1. Full-Range Speaker
2. Speaker Wire



GBOXS0037AWM1

■ Rear speaker

1. Full-Range Speaker
2. Speaker Wire



■ **Remote control**

1. Remote Control Transmitter LED

2. Surround Level Buttons
3. Center Level Buttons
4. Dolby Pro Logic Surround Mode Button
5. Test Tone Button
6. Balance Control Buttons

● **Tuner control section**

7. Preset Up/Down Buttons

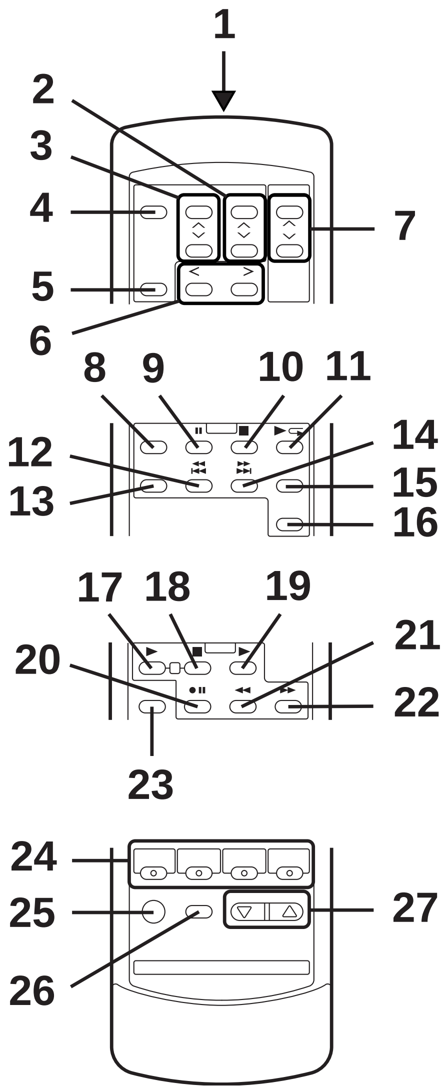
● **CD control section**

8. Memory Button
9. Pause Button
10. Stop Button
11. Play/Repeat Button
12. Track Down/Review Button
13. Clear Button
14. Track Up/Cue Button
15. Random Button
16. Disc Skip Button

● **Tape control section**

17. (TAPE 1) Play Button
18. (TAPE 1/2) Stop Button
19. (TAPE 2) Play Button
20. (TAPE 2) Record Pause Button
21. (TAPE 2) Rewind Button
22. (TAPE 2) Fast Forward Button

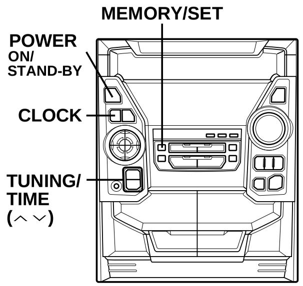
23. Equalizer Mode Button
24. Function Selector Buttons
25. On/Stand-by Button
26. Extra Bass Button
27. Volume Up/Down Buttons

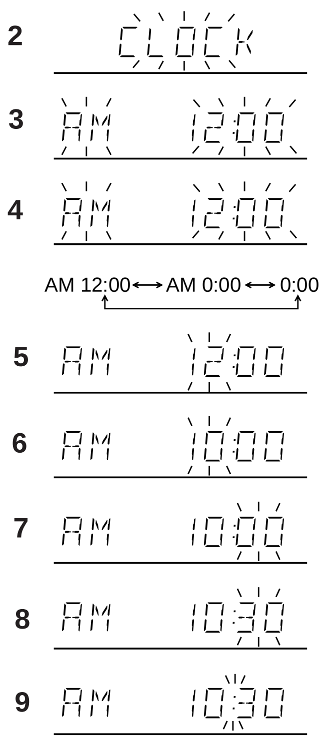


OPERATION MANUAL

SETTING THE CLOCK

(Main unit operation)





In this example, the clock is set for the 12-hour (AM 12:00) system.

1 Press the ON/STAND-BY button to enter the stand-by mode.

2 Press the CLOCK button.

3 Within 5 seconds, press the MEMORY/SET button.

4 Press the TUNING/TIME (︿or ﹀) button to select the time display mode.

"AM 12:00" → The 12-hour display will appear. (AM 12:00 - PM 11:59)
"AM 0:00" → The 12-hour display will appear. (AM 0:00 - PM 11:59)
"0:00" → The 24-hour display will appear. (0:00 - 23:59)

- Note that this can only be set when the unit is first installed or it has been reset (see page 21).

5 Press the MEMORY/SET button.

6 Press the TUNING/TIME (︿or ﹀) button to adjust the hour.

- Press the TUNING/TIME (︿or ﹀) button once to advance the time by 1 hour. Hold it down to advance continuously.
- When the 12-hour display is selected, "AM" will change automatically to "PM".

7 Press the MEMORY/SET button.

8 Press the TUNING/TIME (︿or ﹀) button to adjust the minutes.

- Press the TUNING/TIME (︿or ﹀) button once to advance the time by 1 minute. Hold it down to change the time in 5 minute intervals.
- The hour setting will not advance even if minutes advance from "59" to "00".

9 Press the MEMORY/SET button.

- The clock starts operating from "0" second. (Seconds are not displayed.) And then the clock display will disappear after a few seconds.

To see the time display:
Press the CLOCK button.
- The time display will appear for about 5 seconds.

Note:
- The clock display will flash on and off at the push of the CLOCK button when the AC power supply is restored after a power failure occurs or after the AC power cord is disconnected. If this happens, follow the procedure below to change the clock time.

To change the clock time:

① Press the CLOCK button.

② Within 5 seconds, press the MEMORY/SET button.

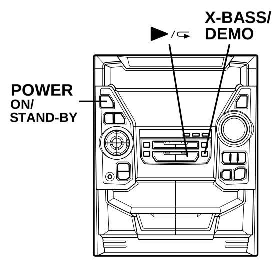
③ Perform steps 6 - 9 above.

To change the time display mode:

① Perform steps 1 - 2 in the section "RESETTING THE MICROCOMPUTER", on page 21.

② Perform steps 1 - 9 above.

RESETTING THE MICROCOMPUTER



Reset the microcomputer under the following conditions:
- To erase all of the stored memory contents (clock and timer settings, and tuner and CD presets).
- If the display is not correct.
- If the operation is not correct.

1 Press the ON/STAND-BY button to enter the stand-by mode.

2 While pressing down the ▶/⥃ button and the X-BASS/DEMO button, hold down the ON/STAND-BY button for at least 1 second.

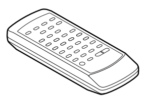
- "CLEAR AL" will appear.

Caution:
- The operation explained above will erase all data stored in memory including clock and timer settings, and tuner and CD presets.

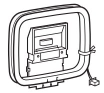
SHARP

MINI COMPONENT SYSTEM
Quick Guide/*Guía rápida* CD-PC3500

1 Check the supplied accessories / *Compruebe los accesorios suministrados*



- **Remote control x 1**
- ***Controlador remoto x 1***

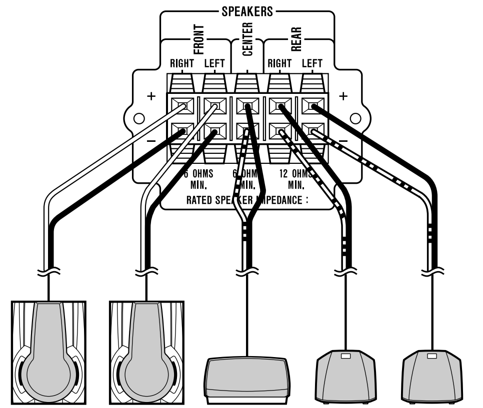


- **FM/AM loop antenna x 1**
- ***Antena de cuadro de FM/AM x 1***

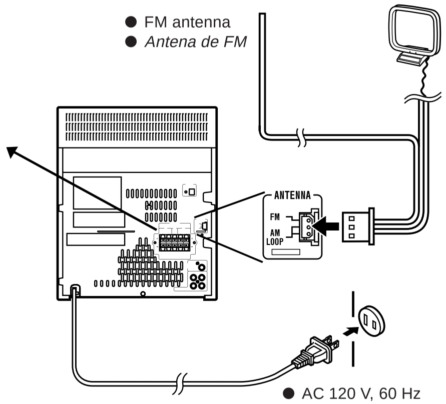
2 Preparation for use / *Preparación para su uso*

■ **Speaker connection**
■ ***Conexión de los altavoces***

Black / *Negro* — Red / *Rojo* — White line / *Línea blanca*

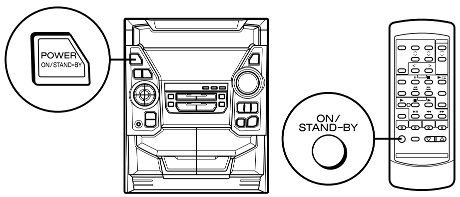


■ **Antenna connection**
■ ***Conexión de las antenas***

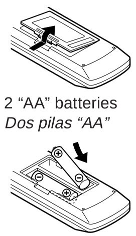


- FM antenna
- *Antena de FM*
- AM loop antenna
- *Antena de cuadro de AM*
- AC 120 V, 60 Hz
- *120 V de CA, 60 Hz*

■ **Switching between power-on and stand-by mode**
■ ***Cambio entre la conexión de la alimentación y el modo de reserva***

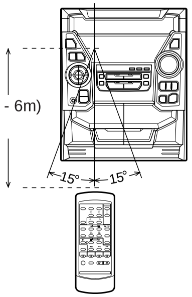


■ **Remote control**
■ ***Controlador remoto***

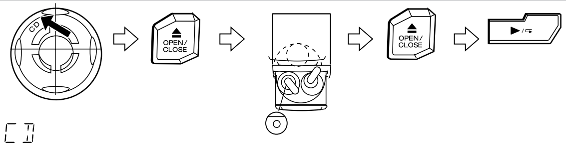


- 2 "AA" batteries
- *Dos pilas "AA"*
- Batteries are not included.
- *Las pilas no están incluidas.*

Remote sensor
Sensor remoto



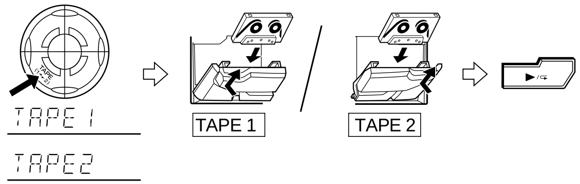
3 Listening to a CD / *Audición de discos CD*



- Label facing up
- *Etiqueta hacia arriba*

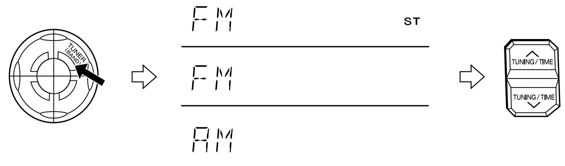
■ **To stop the playback**
■ ***Para detener la reproducción***

4 Listening to a tape / *Audición de una cinta*

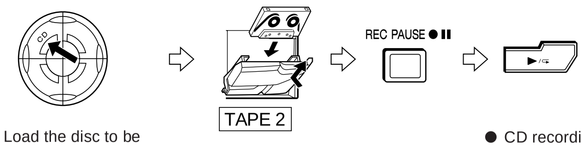


■ **To stop the playback**
■ ***Para detener la reproducción***

5 Listening to the radio / *Audición de la radio*



6 Recording from CDs / *Grabaciones de discos CD*



- Load the disc to be recorded.
- *Introduzca el disco que va a grabar.*
- CD recording starts.
- *La grabación de CD empieza.*

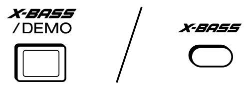
■ **To stop recording**
■ ***Para detener la grabación***

7 Sound control / *Control del sonido*

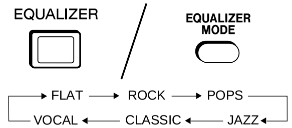
■ **Volume**
■ ***Volumen***



■ **Extra bass (X-BASS)**
■ ***Graves extra (X-BASS)***



■ **Pre-programmed equalizer**
■ ***Ecualizador preprogramado***



TINSZ0505AWZZ A9912.HK

Printed in Malaysia
Impreso en Malaysia

DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take suffcient care on static electricity of integrated circuits and other circuits when servicing.

CD-PC3500

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw .... (A1) x4	9-1
2	Side Panel (Left/right)	1. Screw .... (B1) x8	9-1
3	CD Player Unit/ CD Tray Cover	1. Turn on the power supply, open the disc tray, take out the CD cover, and close. (Note 1) 2. Screw .... (C1) x1 3. Hook .... (C2) x3 4. Hook .... (C3) x2 5. Socket .... (C4) x3	9-2
4	Rear Panel	1. Screw .... (D1) x10	9-2
5	Main PWB	1. Screw .... (E1) x3 2. Socket .... (E2) x2 3. Flat Cable .... (E3) x1	9-2 10-2
6	Power Supply PWB	1. Screw .... (F1) x2 2. Socket .... (F2) x4 3. Flat Wire .... (F3) x1	10-2 10-3
7	Front Panel	1. Screw .... (G1) x2	10-2
8	Display PWB	1. Screw .... (H1) x14 2. Socket .... (H2) x1	10-3
9	Tape Mechanism	1. Open the cassette holder. 2. Screw...................... (J1) x5	10-3
10	Headphones PWB	1. Screw .... (K1) x1	10-3
11	Turntable	1. Hook .... (L1) x2 2. Cover .... (L2) x1	10-4
12	Disc Tray	1. Turn fully the lock lever in the arrow direction. 2. While holding the lock lever,rotate the cam gear until the cam gear rib engages with the clamp lever. 3. Push the slide holder backward to engage the claw with the groove and remove it in the direction of the arrow. .... (M1) x6	9-3 10-1 10-5
13	CD Servo PWB (Note 2)	1. Screw .... (N1) x1 2. Hook .... (N2) x2 3. Socket .... (N3) x4	10-6
14	CD Mechanism	1. Hook .... (P1) x2 2. Hook .... (P2) x3	11-1
15	Loading Motor PWB	1. Hook .... (Q1) x5	11-1

Note 1:

How to open the changer manually. (Fig. 9-3)

1. In this state, turn fully the lock lever in the arrow direction through the hole on the loading chassis bottom.
2. While holding the lock lever, rotate the cam gear anticlockwise until the cam gear rib engages with the clamp lever. (Fig. 10-1)
3. After that, push forward the CD slide holder.

CD-PC3500

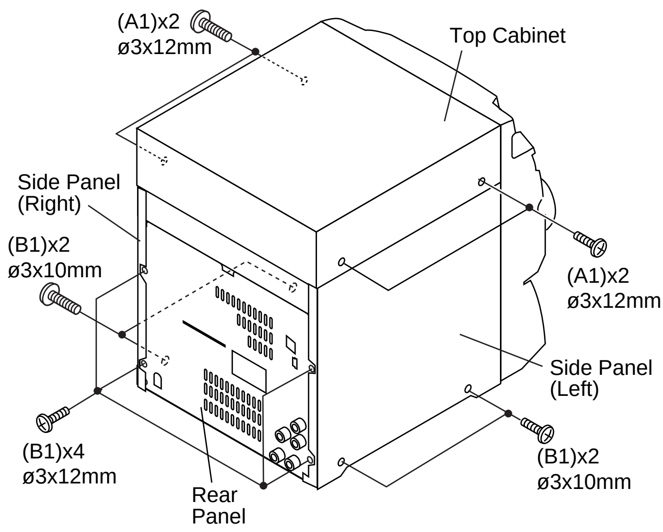


Figure 9-1

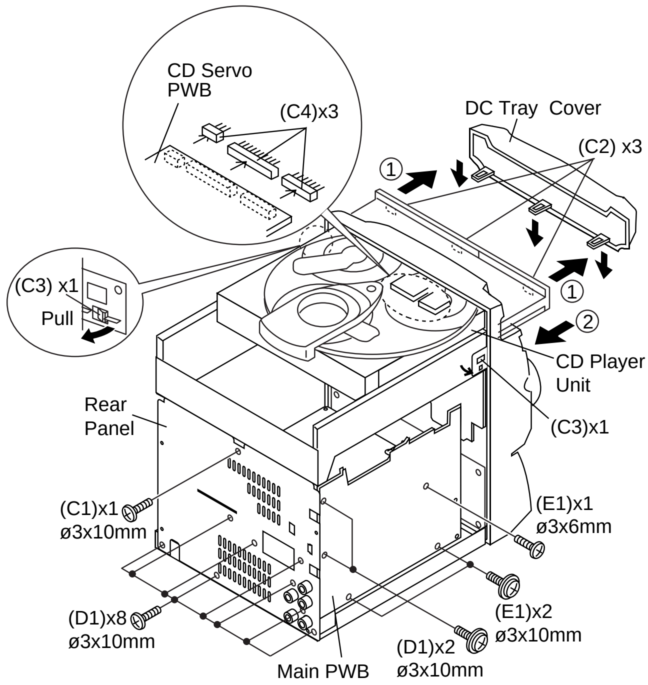


Figure 9-2

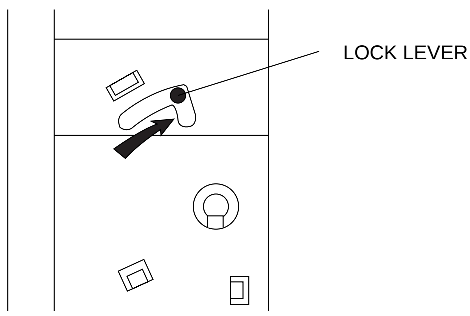


Figure 9-3

Note 2:

1. After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of the connector so as to protect the optical pickup from electrostatic damage.

Note 3:

1. Be careful not to break the claw of the CD mechanism.
2. When fining back the cam gear assembly, let it lock by front movement.

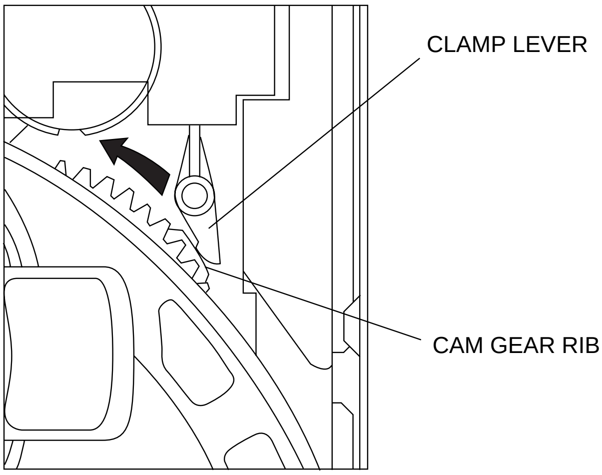


Figure 10-1

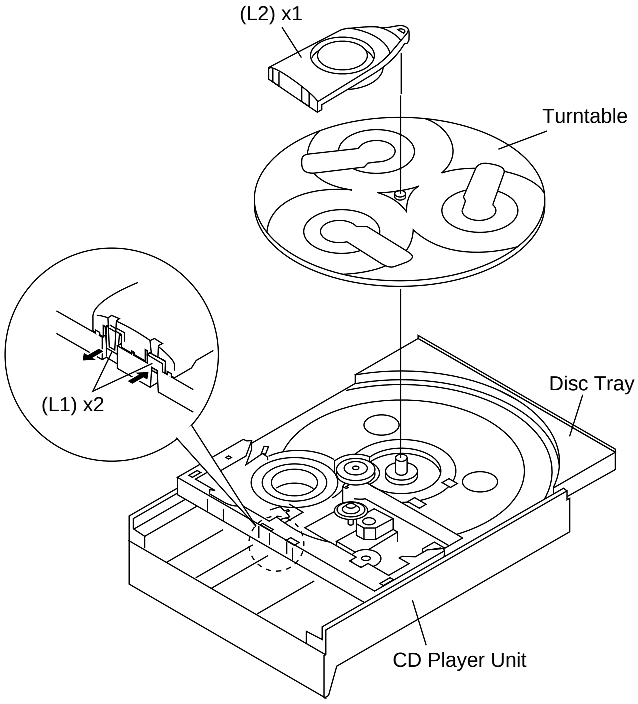


Figure 10-4

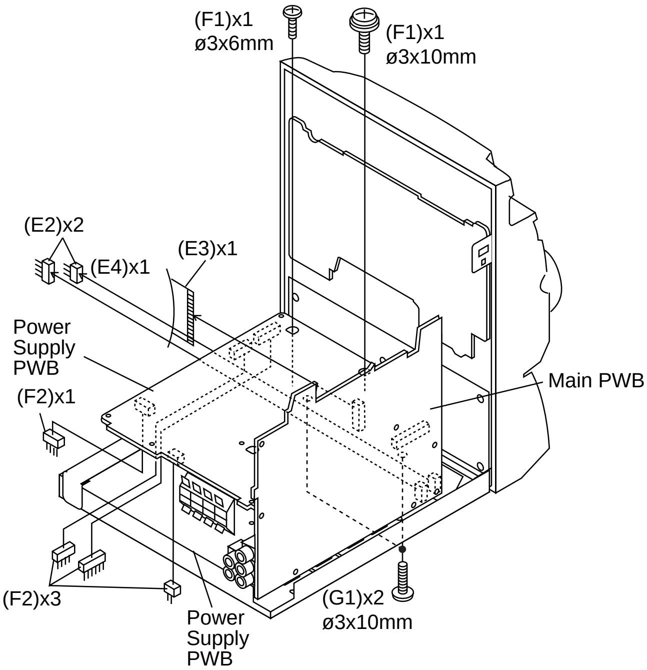


Figure 10-2

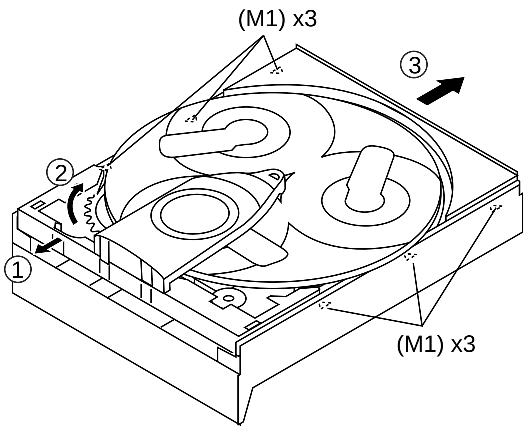


Figure 10-5

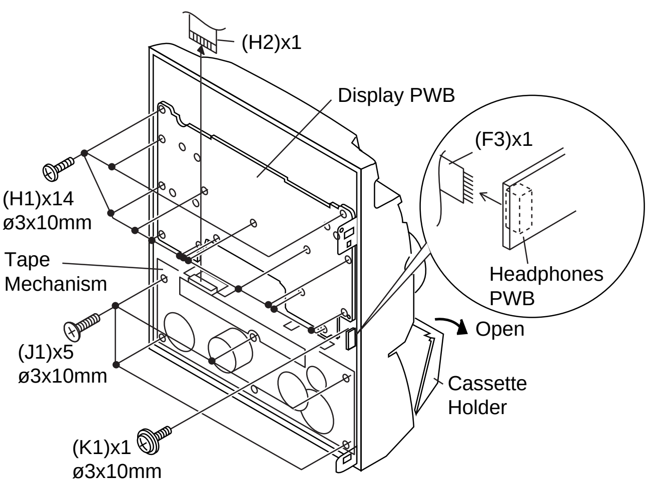


Figure 10-3

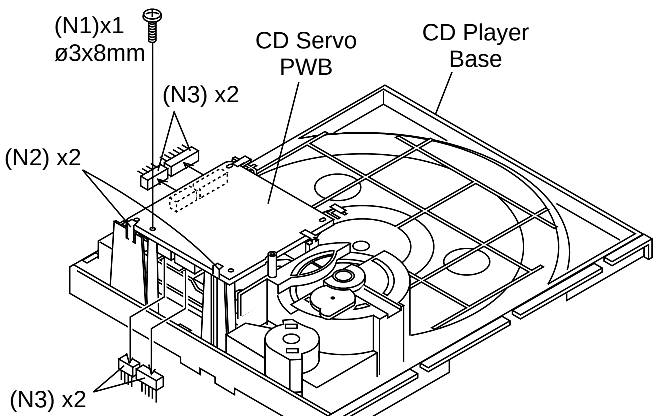


Figure 10-6

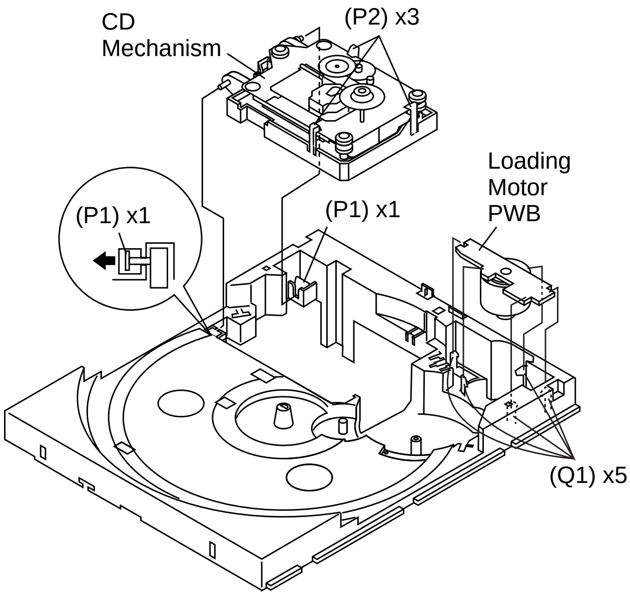


Figure 11-1

CP-C3500			
STEP	**REMOVAL**	**PROCEDURE**	**FIGURE**
1	Front Panel	1. Front Panel .... (A1) x1	11-2
2	Woofer	1. Screw .... (B1) x4	11-2
4	Tweeter	1. Screw .... (C1) x2	11-2
5	Super Tweeter	1. Screw .... (D1) x2	11-2

CP-C3500

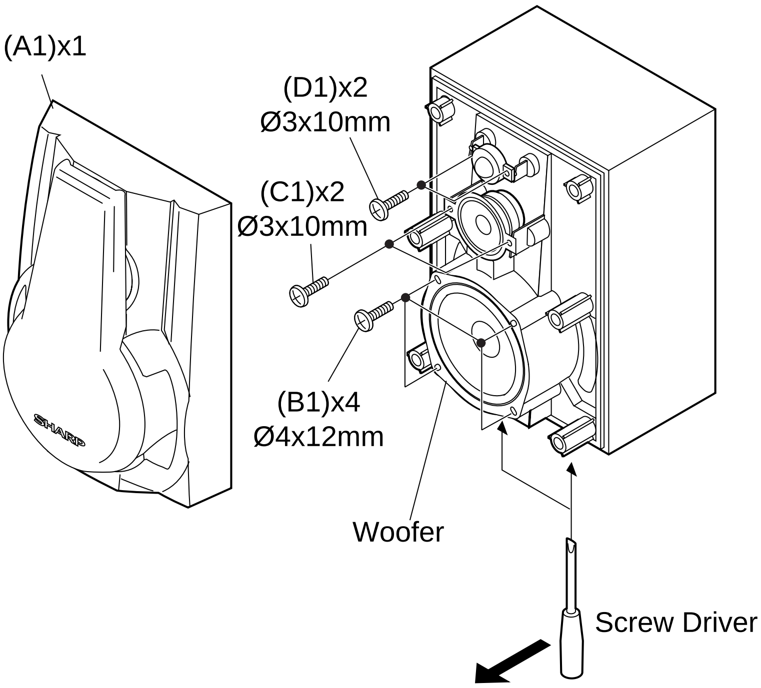


Figure 11-2

REMOVING AND REINSTALLING THE MAIN PARTS

TAPE MECHANISM SECTION

Perform steps 1 to 7 and 9 of the disassembly method to remove the tape mechanism.

How to remove the record/playback and erase heads (TAPE 2) (See Fig. 12-1)

1. When you remove the screw (A1) x 2 pcs., the recording/ playback head and three-dimensional head of the erasing head can be removesd.

How to remove the playback head (TAPE 1) (See Fig. 12-2)

1. When you remove the screw (B1) x 2 pcs., the playback head.

How to remove the pinch roller (TAPE 1/2) (See Fig. 12-3)

1. Carefully push the inside claw to remove it. The pinch roller pawl in the direction of the arrow **<A>**, and remove the pinch roller (C1) upwards.

Note:

When installing the pinch roller, pay attention to the spring mounting position.

How to remove the belt (TAPE 1) (See Fig. 12-4)

1. Remove the main belt (D1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (D2) x 1 pc.

How to remove the belt (TAPE 2) (See Fig. 12-4)

1. Remove the main belt (E1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (E2) x 1 pc.

How to remove the motor (See Fig. 12-5)

1. Remove the screws (F1) x 2 pcs., to remove the motor.

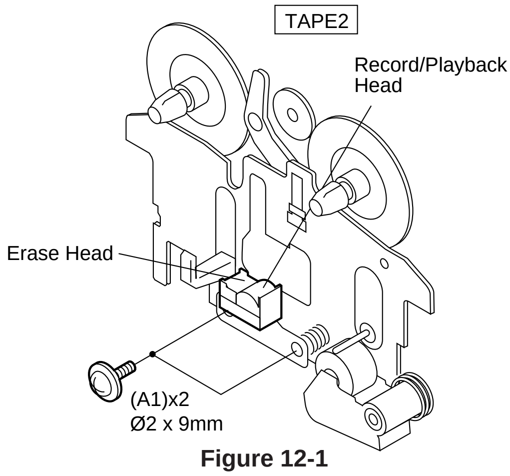


Figure 12-1

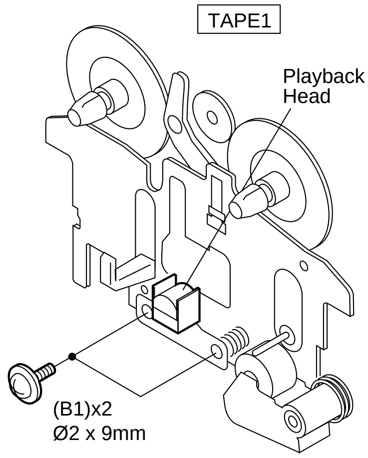


Figure 12-2

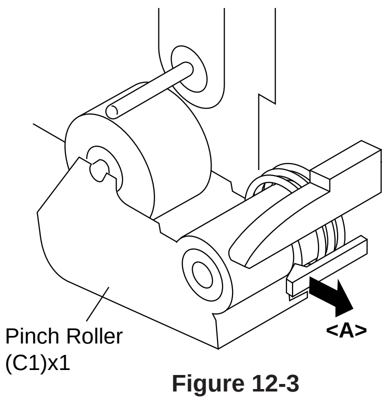


Figure 12-3

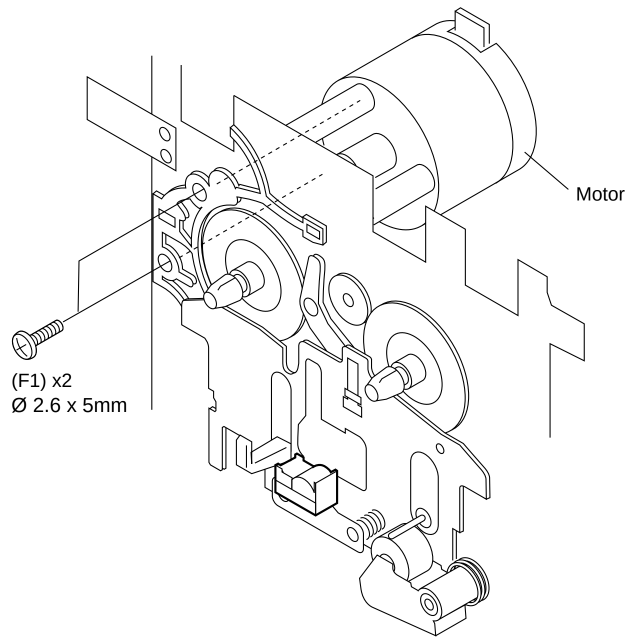


Figure 12-5

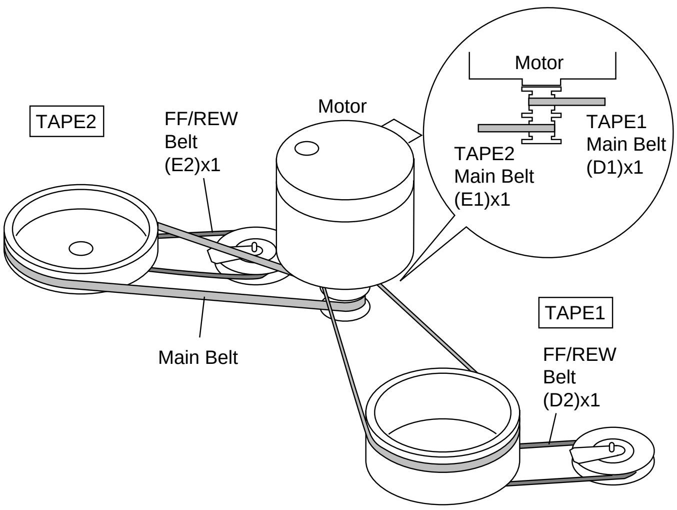


Figure 12-4

CD MECHANISM SECTION

Perform steps 1, 2, 3, 11 and 14 of the disassembly method to remove the CD mechanism.

How to remove the loading motor (See Fig. 13-1)

1. Bend the hooks (A1) x 5 pcs., to remove the loading motor.

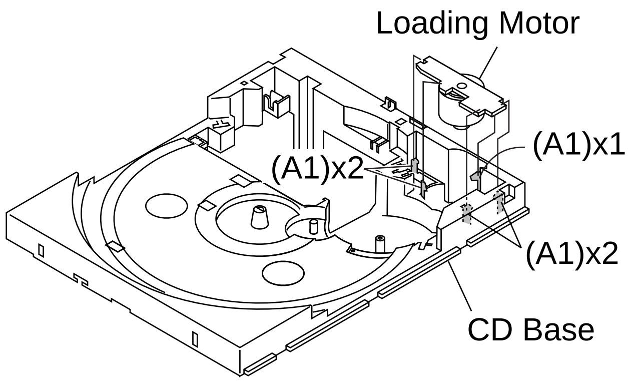


Figure 13-1

How to remove the pickup (See Fig. 13-2)

1. Remove the stop washer (B1) x 1 pc., to remove the gear (B2).
2. Remove the screws (B3) x 2 pcs., to remove the shaft (B4).
3. Remove the pickup.

Note
After removing the connector for the optical pickup from the connector wrap the conductive aluminium foil around the front end of connector so as to protect the optical pickup from electrostatic damage.

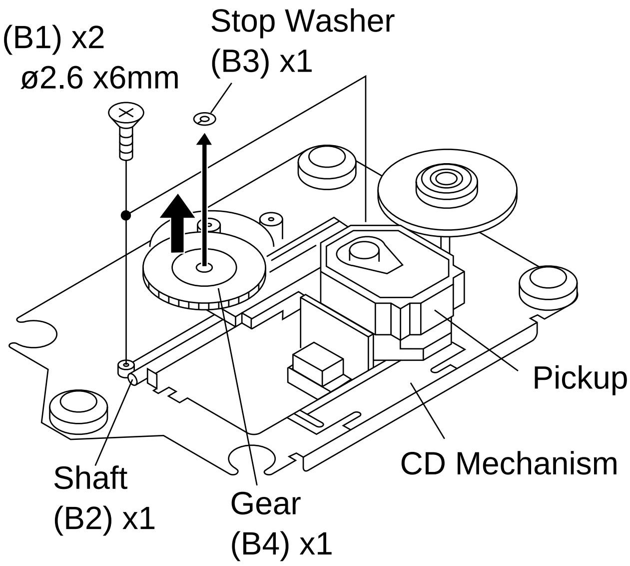


Figure 13-2

ADJUSTMENT

MECHANISM SECTION

- **Driving Force Check**

Torque Meter	Specified Value
Play: TW-2111	Tape 1: Over 80 g Tape 2: Over 80 g

- **Torque Check**

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 80 g. cm	30 to 80 g.cm
Fast forward: TW-2231	—	70 to 180 g.cm
Rewind: TW-2231	—	70 to 180 g.cm

- **Tape Speed**

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	Variable Resistor in motor. (MM1)	3,000 ± 30 Hz	Speaker terminal (Load resistance: 6 ohms)

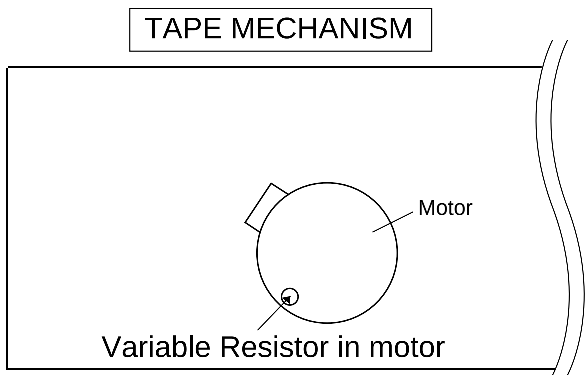


Figure 13-3

TUNER SECTION

fL: Low-range frequency
fH: High-renge frequency

- **AM IF/RF**

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
AM IF	450 kHz	1,720 kHz	T351	*1
AM Band Coverage	—	530 kHz	(fL): T306 1.1 ± 0.1 V	*2
AM Tracking	990 kHz	990 kHz	(fL): T303	*1

*1. Input: Antenna, Output: TP302
*2. Input: Antenna, Output: TP301

- **FM RF**

Signal generator: 1 kHz, 75 kHz dev., FM modulated

Test Stage	Frequency	Frequency Display	Serring/ Adjusting Point	Instrument Connection
FM Band Coverage	—	87.50 MHz	T301(fL): 1.3 V ± 50 mV	*1
FM RF	98.00 MHz (10-30 dB)	98.00 MHz	L312	*2

*1. Input: Antenna, Output: TP301
*2. Input: Antenna, Output: Speaker terminal

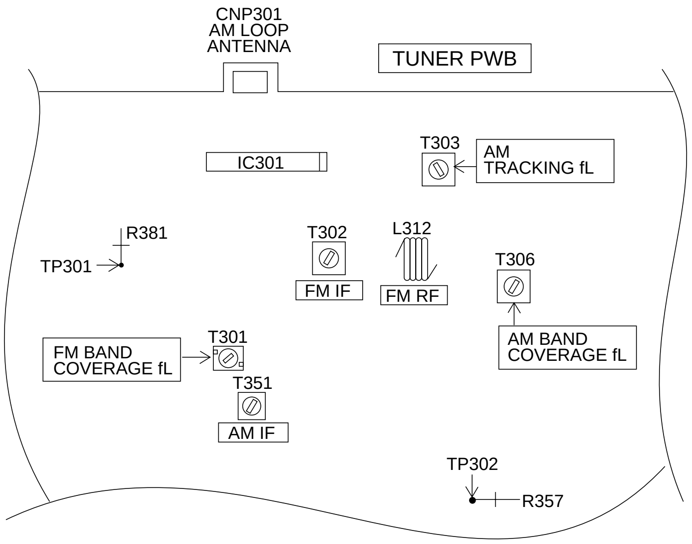


Figure 14-1 ADJUSTMENT POINT

CD SECTION

- **Adjustment**

Since this CD system incorporates the following automatic adjustment functions, readjustment is not needed when replacing the pickup. Therefore, different PWBs and pickups can be combined freely.
Each time a disc is changed, these adjustments are performed automatically. Therefore, playback of each disc can be performed under optimum conditions.

Items adjusted automatically

(1) Offset adjustment (The offset voltage between the head amplifier output and the VREF reference voltage is compensated inside the IC.)
  * Focus offset adjustment
  * Tracking offset adjustment

(2) Tracking balance adjustment (waveform drawing 14-2 EFBL)

(3) Gain adjustment (The gain is compensated inside the IC so that the loop gain at the gain crossover frequency will be 0dB.)
  * Focus gain adjustment
  * Tracking gain adjustment

CD ERROR CODE DESCRIPTION

Error	State Code
	[Servo System Error]
0001	Cannot detect Pickup-in SW
0002	DSP access error
	[Error during close operation]
0101	Open/Close SW not functioning (Low → High)
0103	Open/Close SW not functioning (High → Low)
	[Error during open operation]
0201	Open/Close SW not functioning (Low → High)
0203	Open/Close SW not functioning (High → Low)
	[Error during skip operation]
0302	Pickup-in SW is not detected
0306	During Disc 1 search, Open/Close SW or Clamp SW or Disc SW do not change to low.
0307	Clamp SW not function (Low → High)
0308	Clamp SW not function (High → Low)

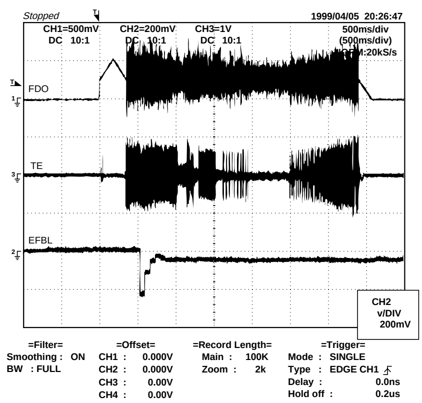


Figure 14-2

EXPLANATION OF DOLBY SURROUND PRO LOGIC AND EVALUATION METHOD

Outline

- Namely, two speakers are connected in parallel to one amplifier.
- In the Pro Logic BYPASS mode the amplifier for C-ch (center channel) and the amplifier for S-ch (surround channel) are in MUTE state. The SP output is cut.
- In the normal mode of Pro Logic ON mode the amplifiers for C-ch and S-ch are in operative state, so that the SP output appears.
- In the Phantom mode of Pro Logic ON mode the amplifier for C-ch is in MUTE state, so that the SP output is cut. The amplifier for S-ch (surround) is in operative state, so that the SP output appears

• State of element output and terminal output in specific mode

State of set / Output point		Dolby Pro Logic Bypass mode	Dolby Pro Logic On mode	
			Normal mode	Phantom mode
IC501	1 pin L-out	Output enabled state	Output enabled state	Output enabled state
	2 pin R-out	Output enabled state	Output enabled state	Output enabled state
IC501	3pin C-out	No output	Output enabled state	No output
IC501	9pin S-out	No output	Output enabled state	Output enabled state
SP OUT (SO901)	L-ch	Output enabled state	Output enabled state	Output enabled state
	R-ch	Output enabled state	Output enabled state	Output enabled state
SP OUT C-ch (SO901)		No output in MUTE (Q501) state	Output enabled state	No output in MUTE (Q501) state
SP OUT S-ch (SO901)		No output in MUTE (Q502) state	Output enabled state	Output enabled state

Test tone output

- Pro Logic ON Normal mode

  Press the remote control TEST TONE button.

  →Output of only L-ch →Output of only C-ch
  ↑ ↓
  Output of only S-ch ← Output of only R-ch

  The test tone (noise) is repeatedly output for output period (2 sec).

  In this case the following indication appears repeatedly.

  →TEST →L-ch →C-ch
  ↑ ↓
  S-ch ← R-ch

- Pro Logic ON Phantom mode

  Press the remote control TEST TONE button.

  →Output of only L-ch →Output of only R-ch
  ↑ ↓
  ← Output of only S-ch

  The test tone (noise) is repeatedly output for output period (2 sec).

  In this case the following indication appears repeatedly.

  →TEST → L-ch → R-ch
  ↑ ↓
  ← S-ch←

Relation between VIDEO IN input and output in Pro Logic ON state

(1) L-ch/R-ch same phase input into VIDEO IN input jack in VIDEO Function mode

Output point		Normal mode
SP out (SO901)	L-ch	Almost no output (only omitting component)
	R-ch	Almost no output (only omitting component)
(SO901) SP out C-ch		Input signal is output.
(SO901) SP out S-ch		Almost no output (only omitting component)

Output point		Phantom mode
SP out (SO901)	L-ch	Input signal is output.
	R-ch	Input signal is output.
(SO901) SP out C-ch		SP cut, no output
(SO901) SP out S-ch		Almost no output (only omitting component)

(2) L-ch/R-ch reverse phase input into VIDEO IN input jack in VIDEO Function mode

(Reverse phase: Phase difference between L and R is 180°)

Output point		Normal mode
SP out (SO901)	L-ch	Almost no output (only omitting component)
	R-ch	Almost no output (only omitting component)
(SO901) SP out C-ch		Almost no output (only omitting component)
(SO901) SP out S-ch		Input signal is output.

Output point		Phantom mode
SP out (SO901)	L-ch	Almost no output (only omitting component)
	R-ch	Almost no output (only omitting component)
(SO901) SP out C-ch		SP cut, no output
(SO901) SP out S-ch		Input signal is output.

- Accordingly, if you want to output signal waveform to C-ch SP out, give the same phase input into L-ch/R-ch INPUT in the Pro Logic Normal mode.
  If one of channels receives input, C-ch does not output. Only L-ch or R-ch outputs.

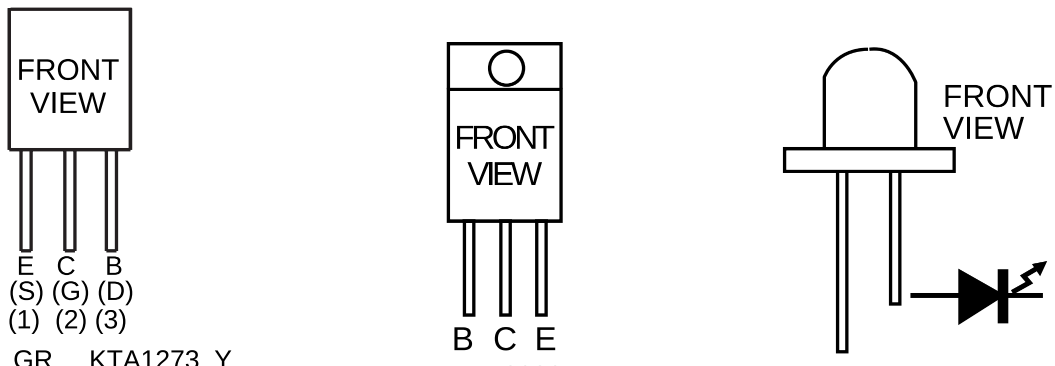
- If you want to output signal waveform to S-ch SP out, you can use either Normal mode or Phantom mode. However, 180° reverse phase input must be given to L-ch/R-ch INPUT.

NOTES ON SCHEMATIC DIAGRAM

- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with “Fusible” is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression “capacitance/withstand voltage” is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
  1. In the tuner section,
     ( ) indicates AM
     < > indicates FM stereo
  2. In the main section, a tape is being played back.
  3. In the deck section, a tape is being played back.
     ( ) indicates the record state.
  4. In the power section, a tape is being played back.
  5. In the CD section, the CD is stopped.
- Parts marked with “⚠” (⊏ ⊐) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO	DESCRIPTION	POSITION
SW1	OPEN/CLOSE	ON—OFF
SW2	CLAMP	ON—OFF
SW3	DISC NUMBER	ON—OFF
SW4	PICKUP IN	ON—OFF
SW701	CD	ON—OFF
SW702	TAPE	ON—OFF
SW703	TUNING DOWN	ON—OFF
SW704	MEMORY/SET	ON—OFF
SW705	REV	ON—OFF
SW706	FF	ON—OFF
SW707	PLAY	ON—OFF
SW708	STOP	ON—OFF
SW710	REC	ON—OFF
SW711	TUNING UP	ON—OFF
SW712	VIDEO	ON—OFF

REF. NO	DESCRIPTION	POSITION
SW713	TUNING	ON—OFF
SW714	DIMMER	ON—OFF
SW715	X-BASS	ON—OFF
SW716	EQUAL	ON—OFF
SW717	NORMAL	ON—OFF
SW718	PHANTOM	ON—OFF
SW719	BY-PASS	ON—OFF
SW720	POWER	ON—OFF
SW721	CLOCK	ON—OFF
SW722	TIMER	ON—OFF
SW728	DISC 1	ON—OFF
SW729	DISC 2	ON—OFF
SW730	DISC 3	ON—OFF
SW731	DISC SKIP	ON—OFF
SW732	OPEN/CLOSE	ON—OFF



KTA1266 GR
KRC102 M
KRC104 M
KTA1271 Y
KTA1274 Y

KTA1273 Y
KTC3203 Y
KTC3199 GR
KTC107 M
2SC3203 Y
KTC3194 Y

KTD2026 Y

4204SRT7
4204UYT7

Figure 16 TYPES OF TRANSISTOR AND LED

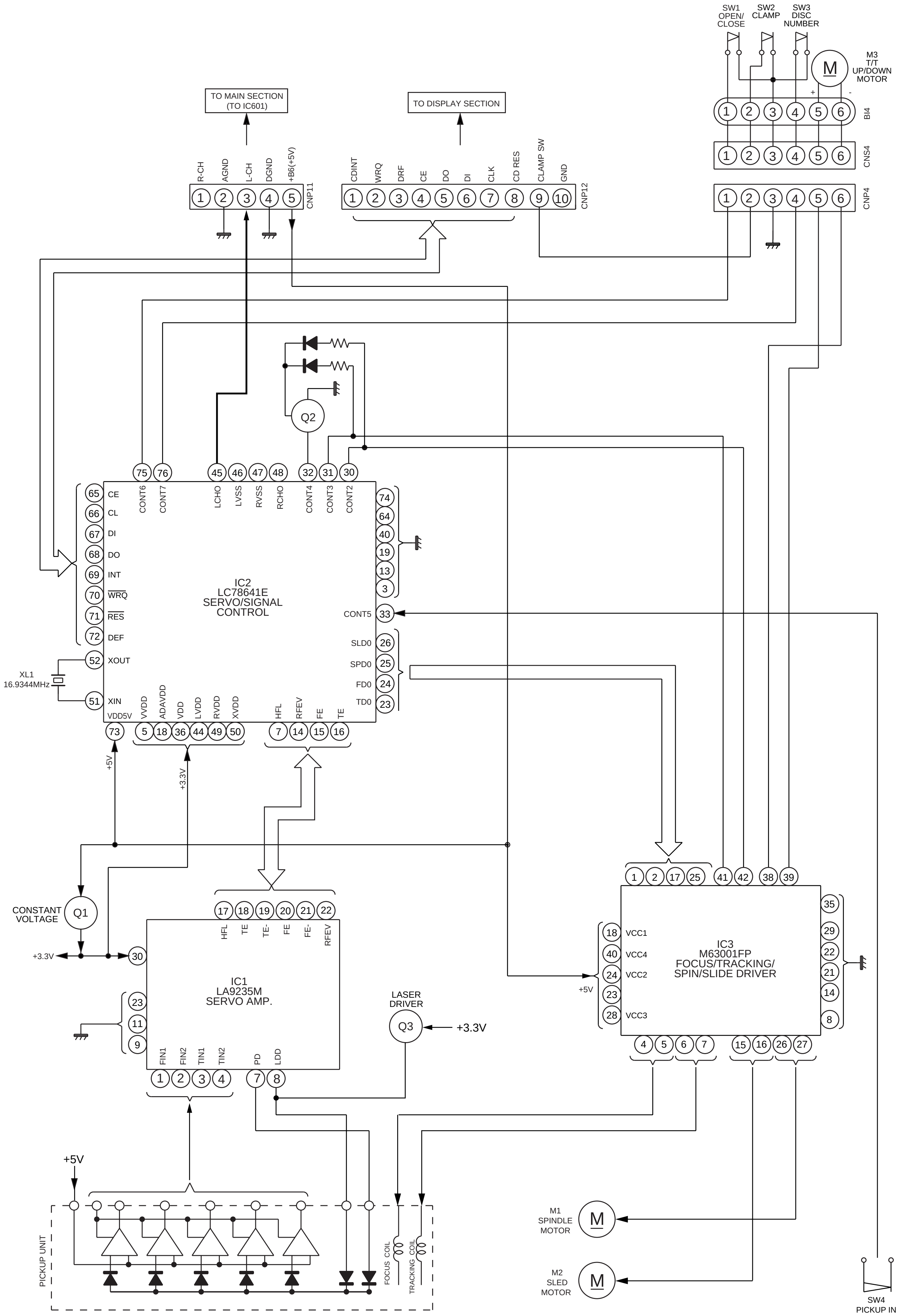


Figure 17 BLOCK DIAGRAM (1/3)

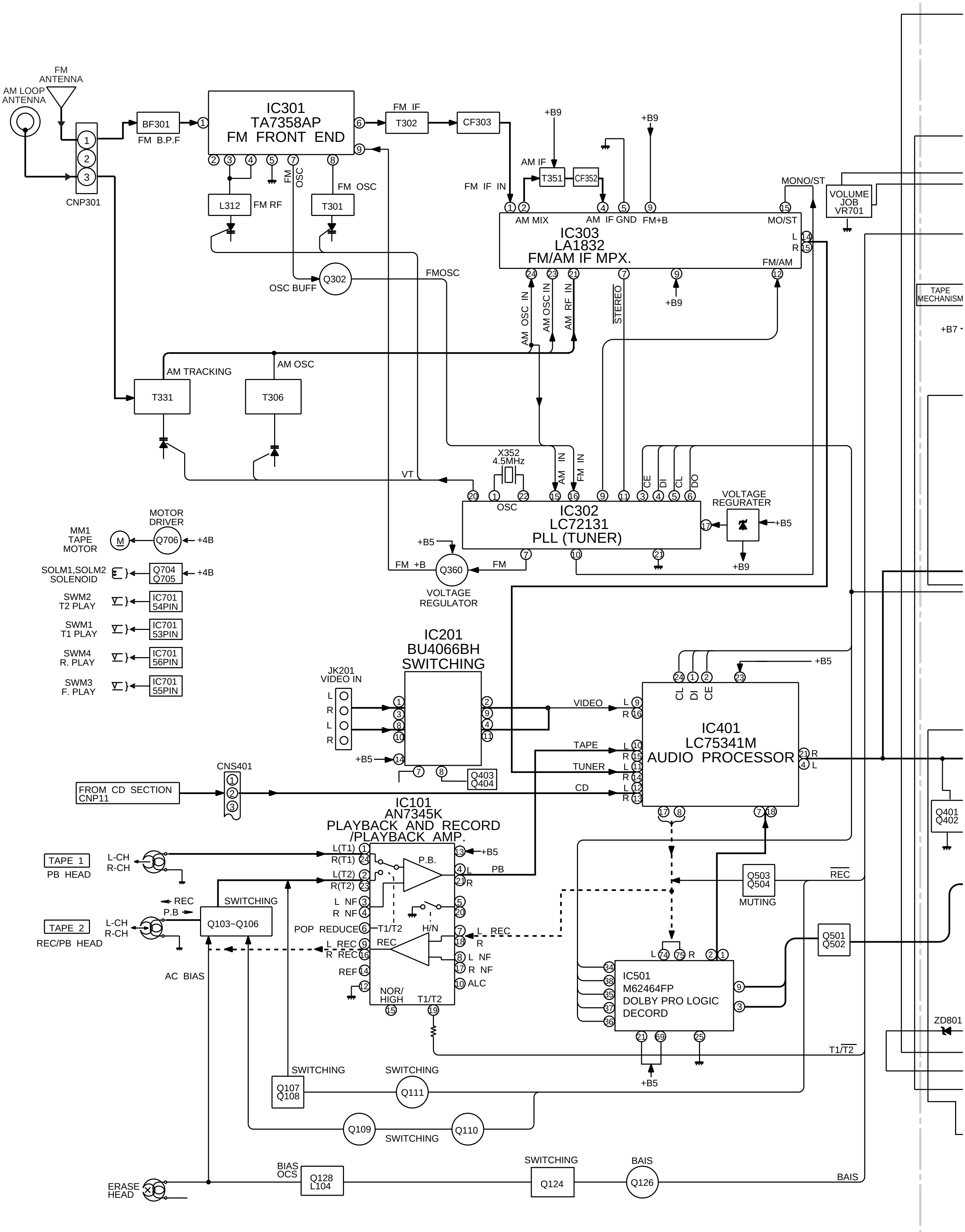


Figure 18 BLOCK DIAGRAM (2/3)

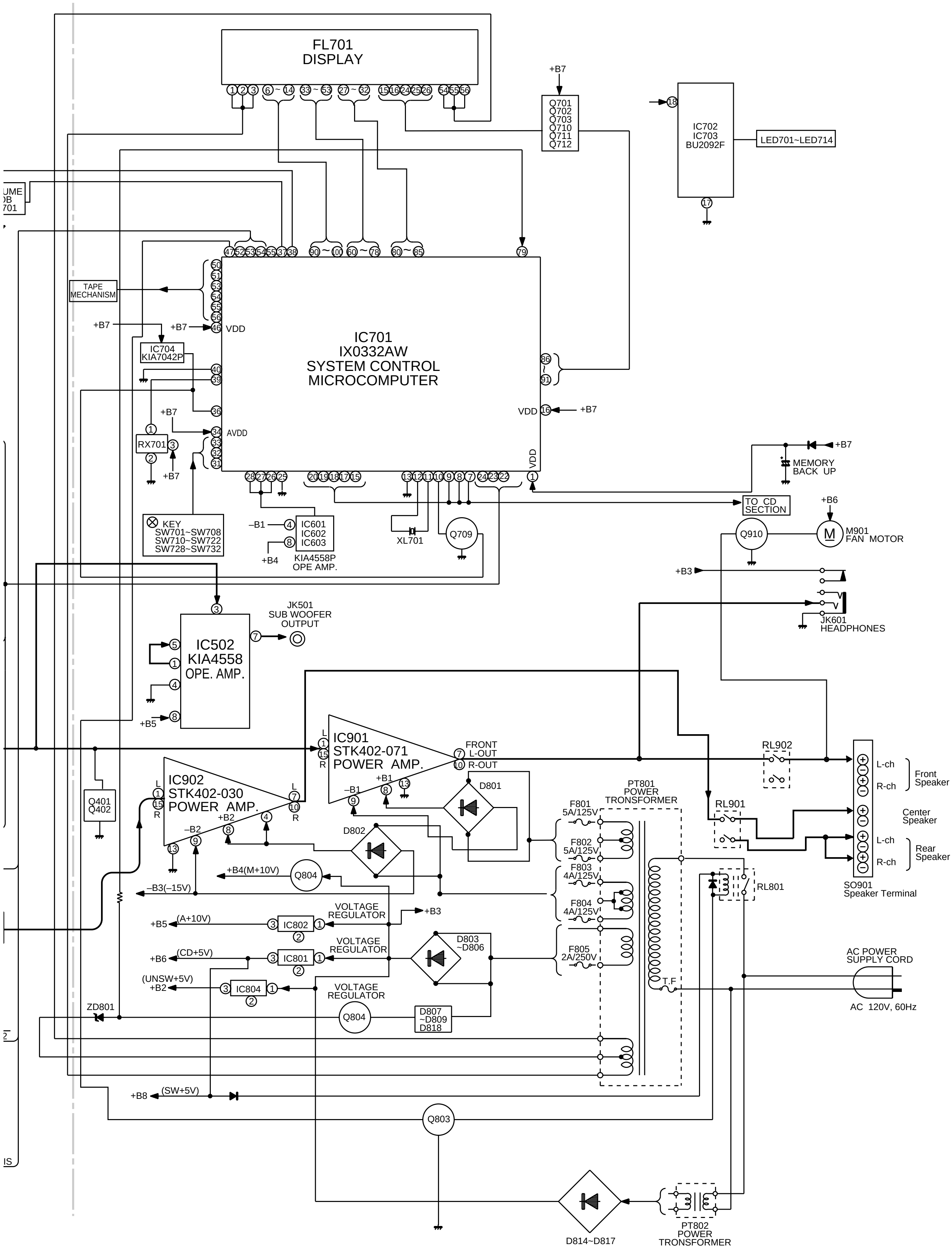
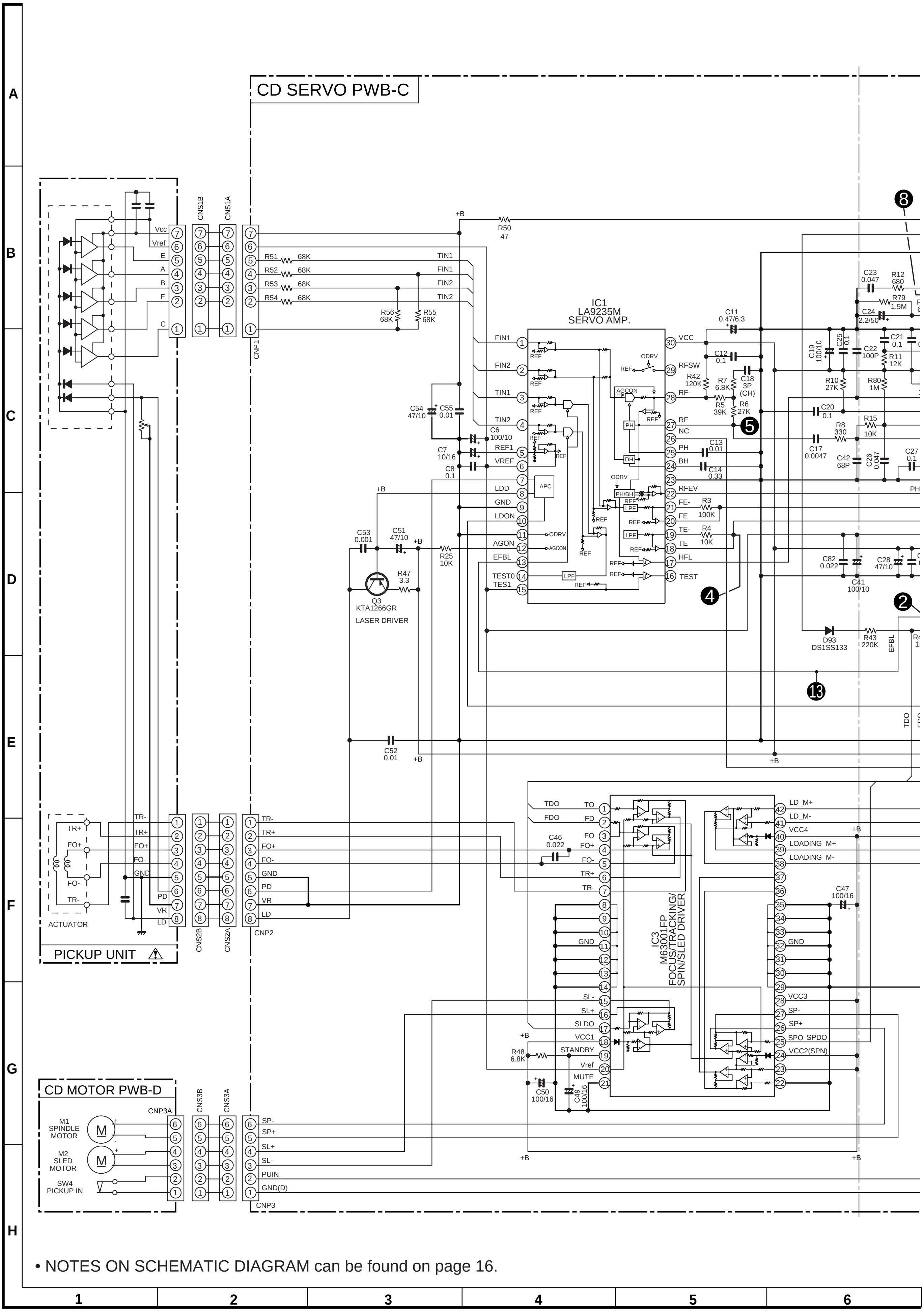
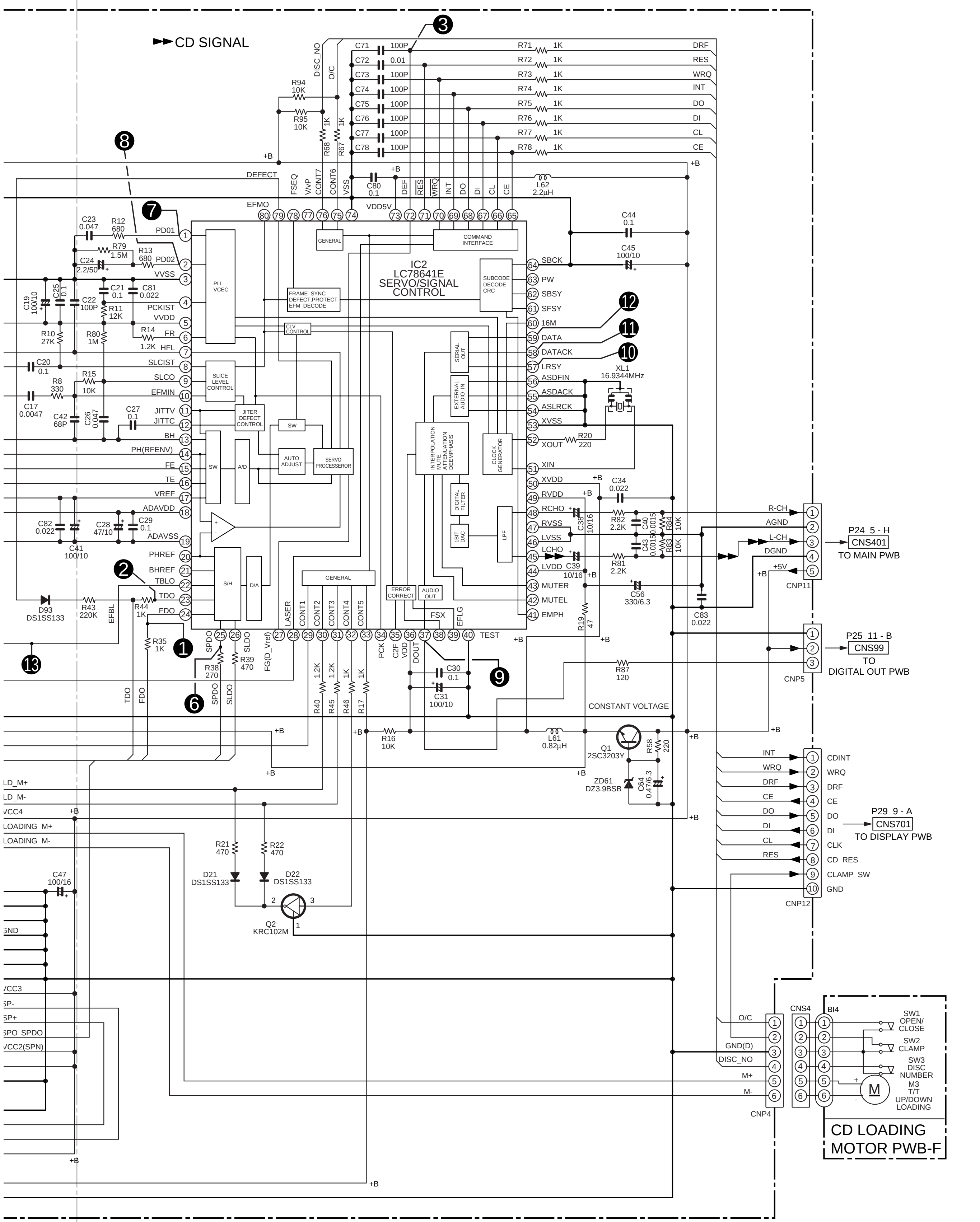


Figure 19 BLOCK DIAGRAM (3/3)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

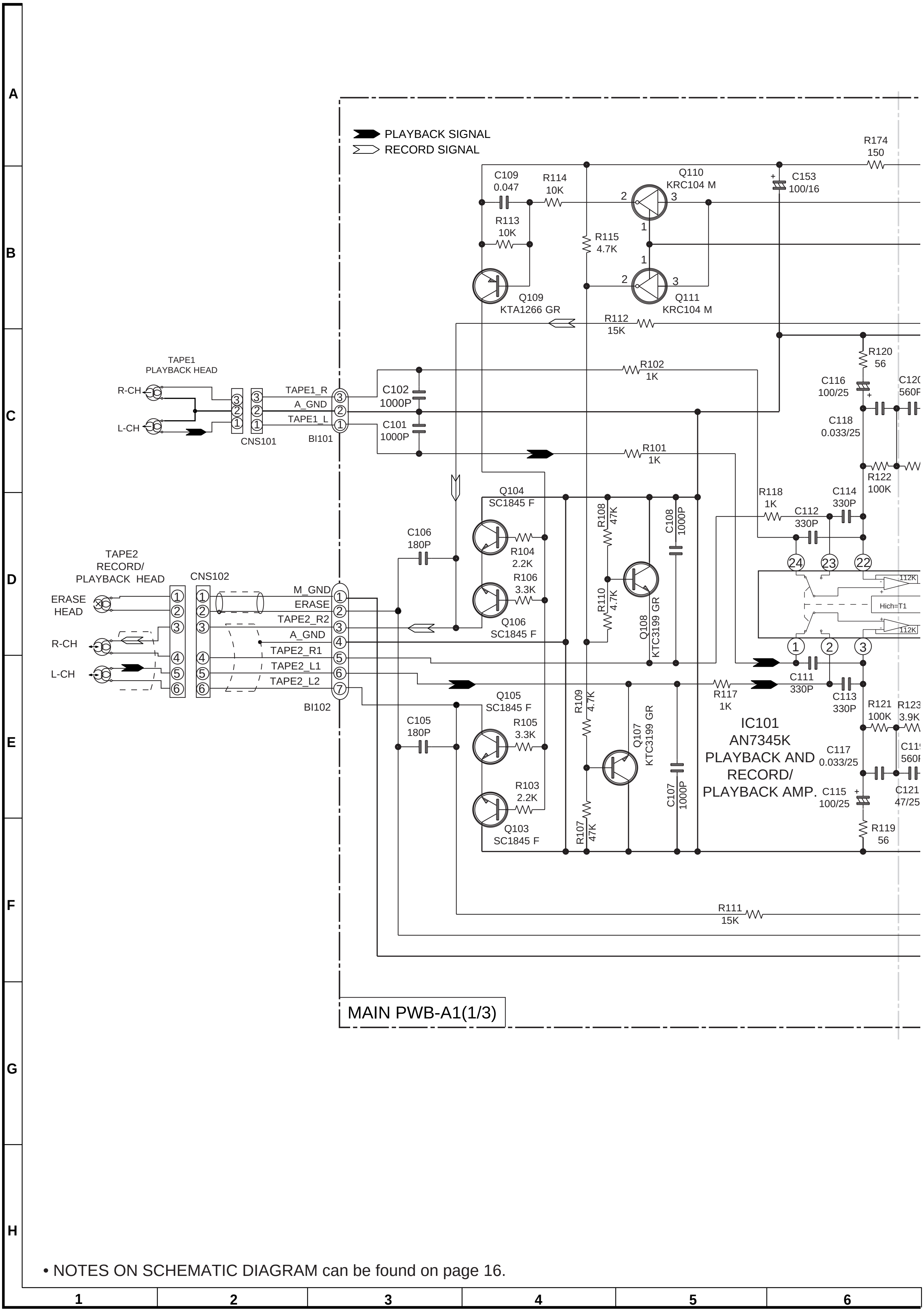
Figure 20 SCHEMATIC DIAGRAM (1/12)



• The numbers 1 to 13 are waveform numbers shown in page 41.

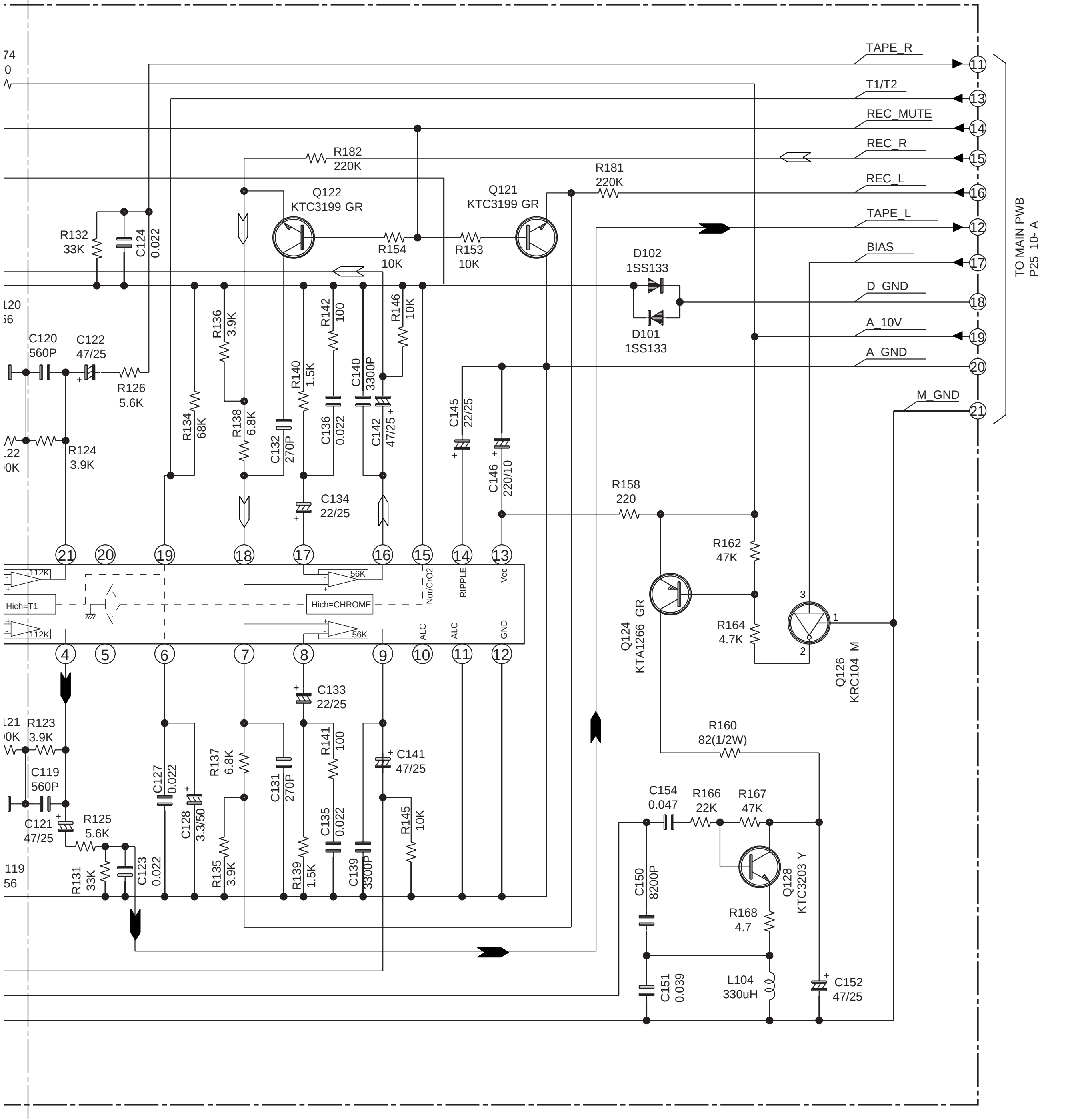
7	8	9	10	11	12

Figure 21 SCHEMATIC DIAGRAM (2/12)



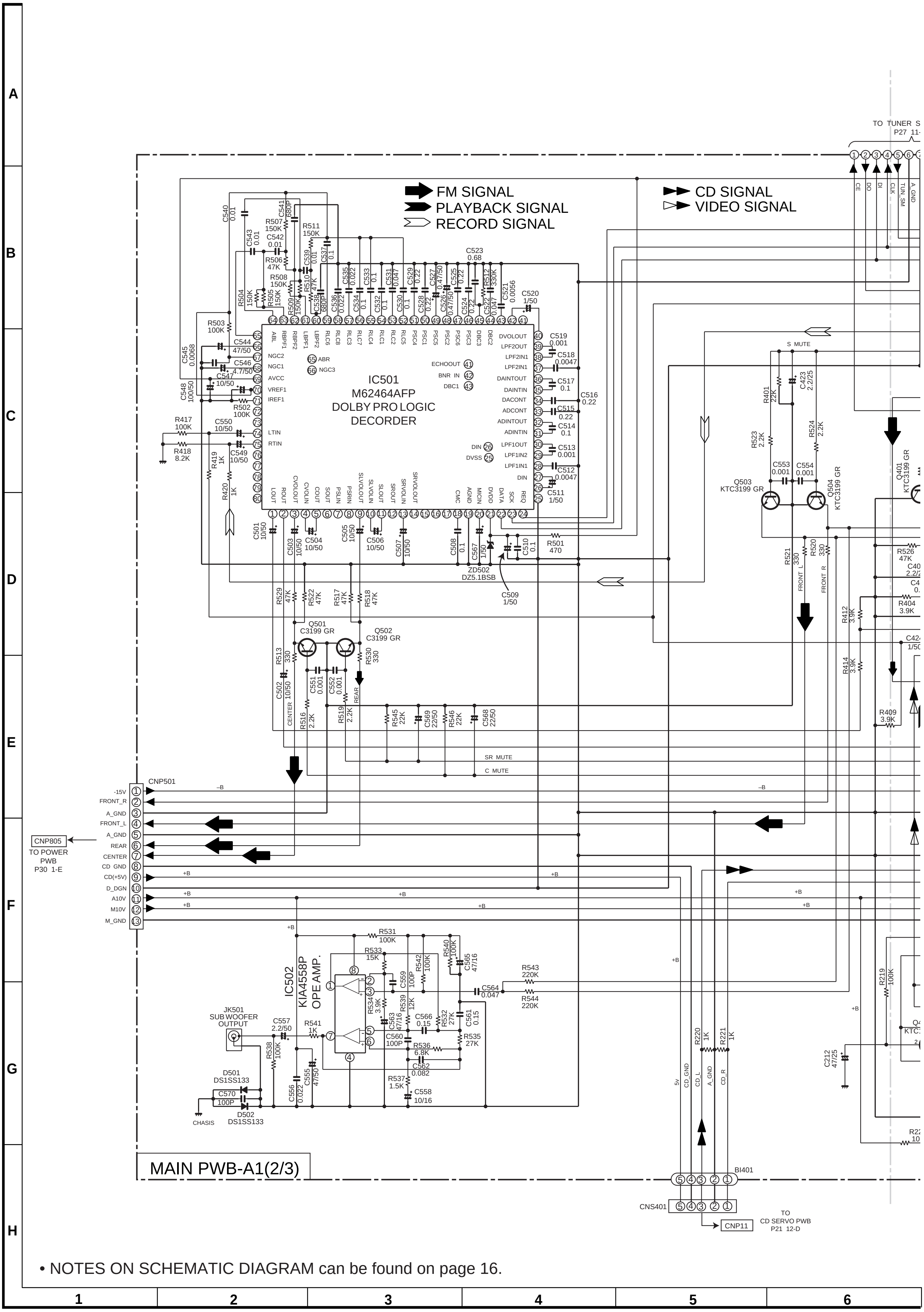
• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 22 SCHEMATIC DIAGRAM (3/12)



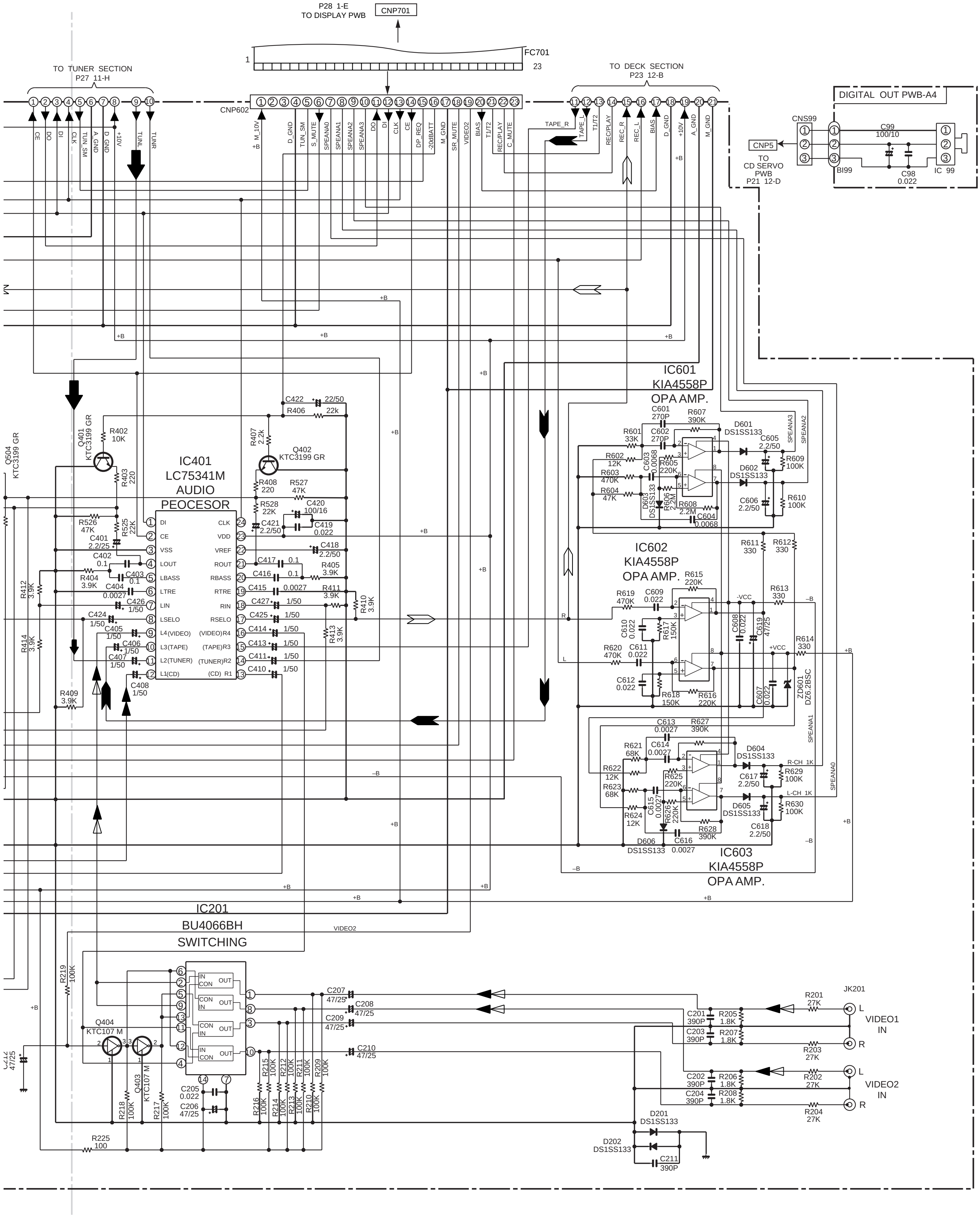
7	8	9	10	11	12

Figure 23 SCHEMATIC DIAGRAM (4/12)



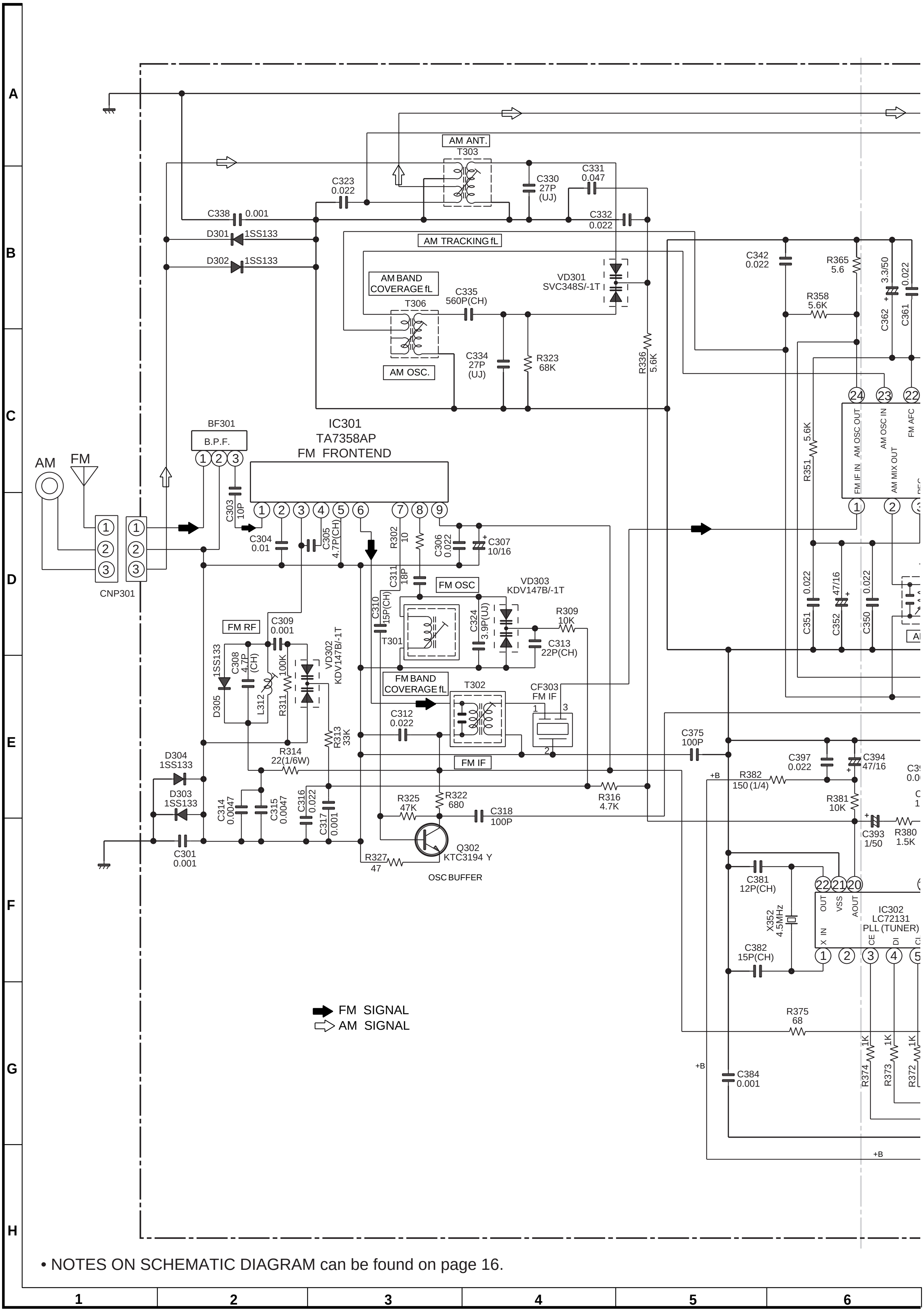
• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 24 SCHEMATIC DIAGRAM (5/12)



7	8	9	10	11	12

Figure 25 SCHEMATIC DIAGRAM (6/12)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 26 SCHEMATIC DIAGRAM (7/12)

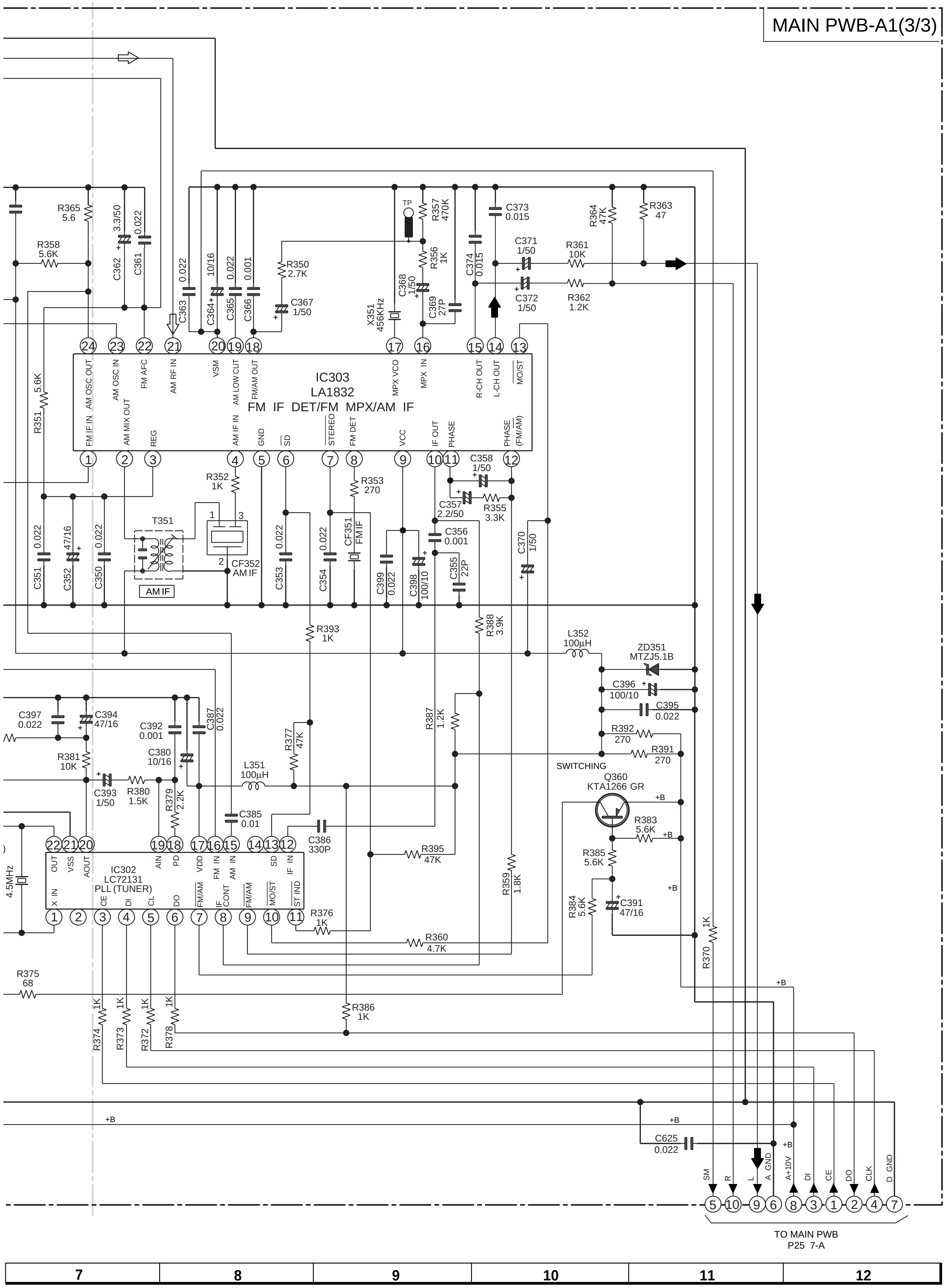
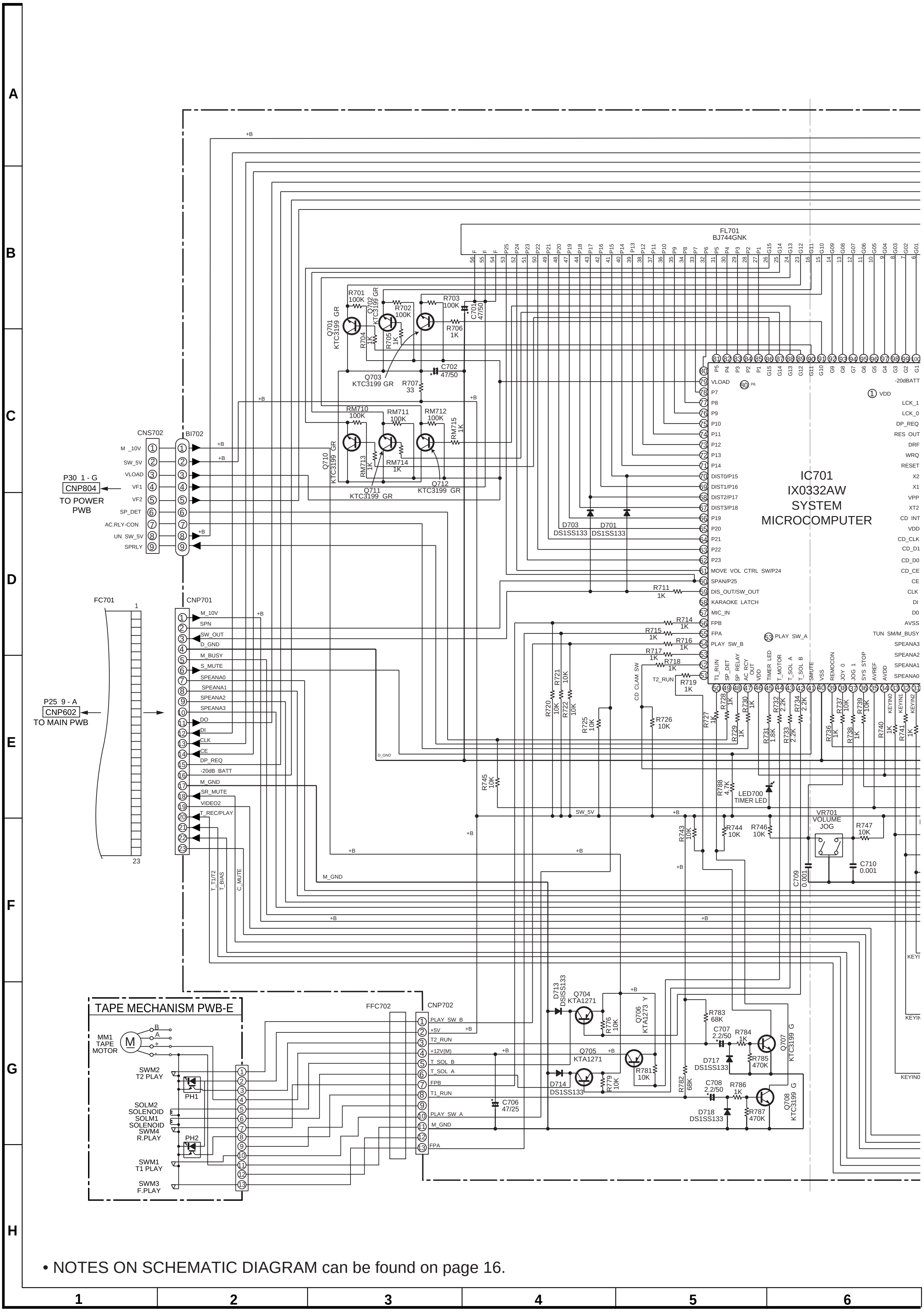
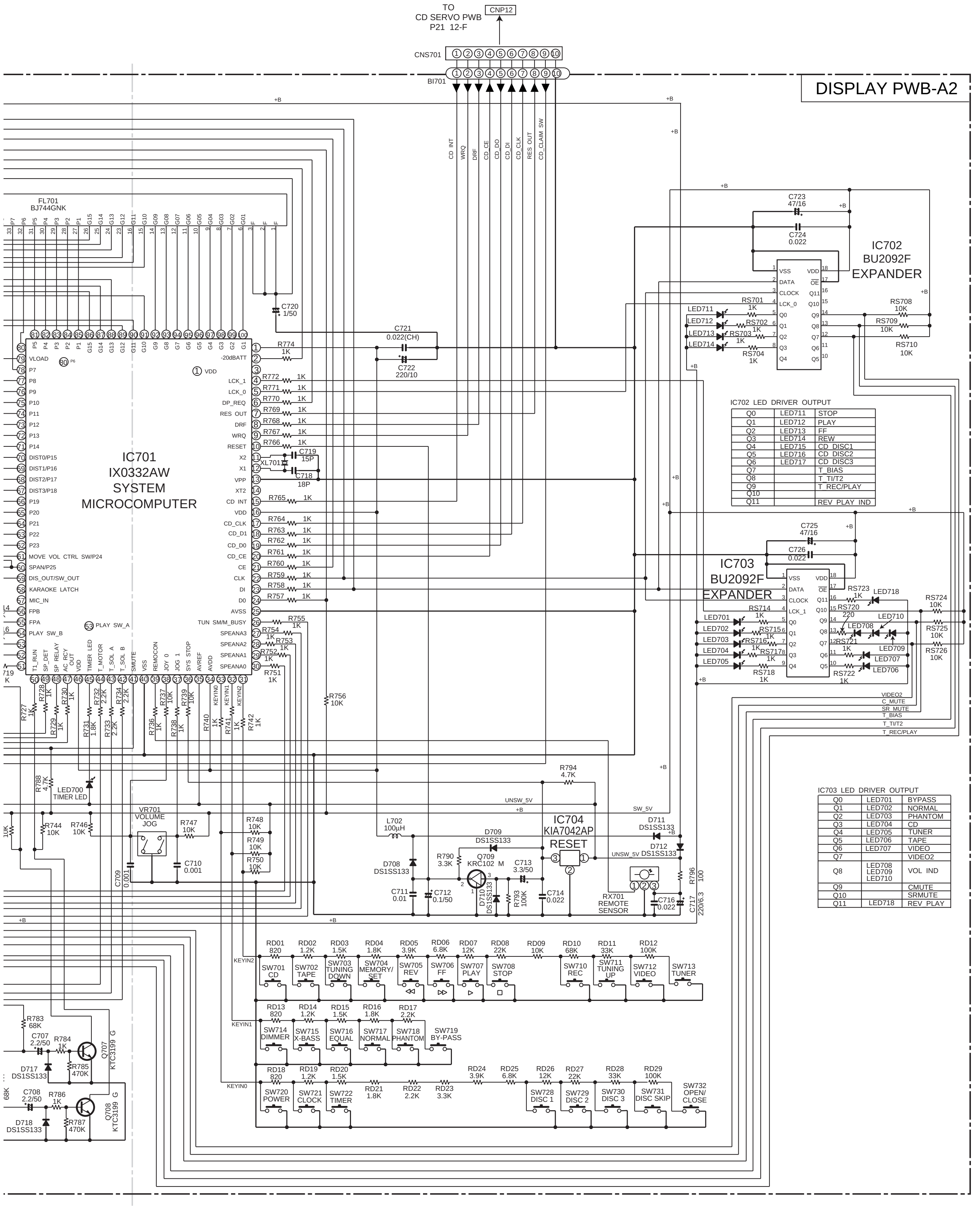


Figure 27 SCHEMATIC DIAGRAM (8/12)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 28 SCHEMATIC DIAGRAM (9/12)



IC702 LED DRIVER OUTPUT

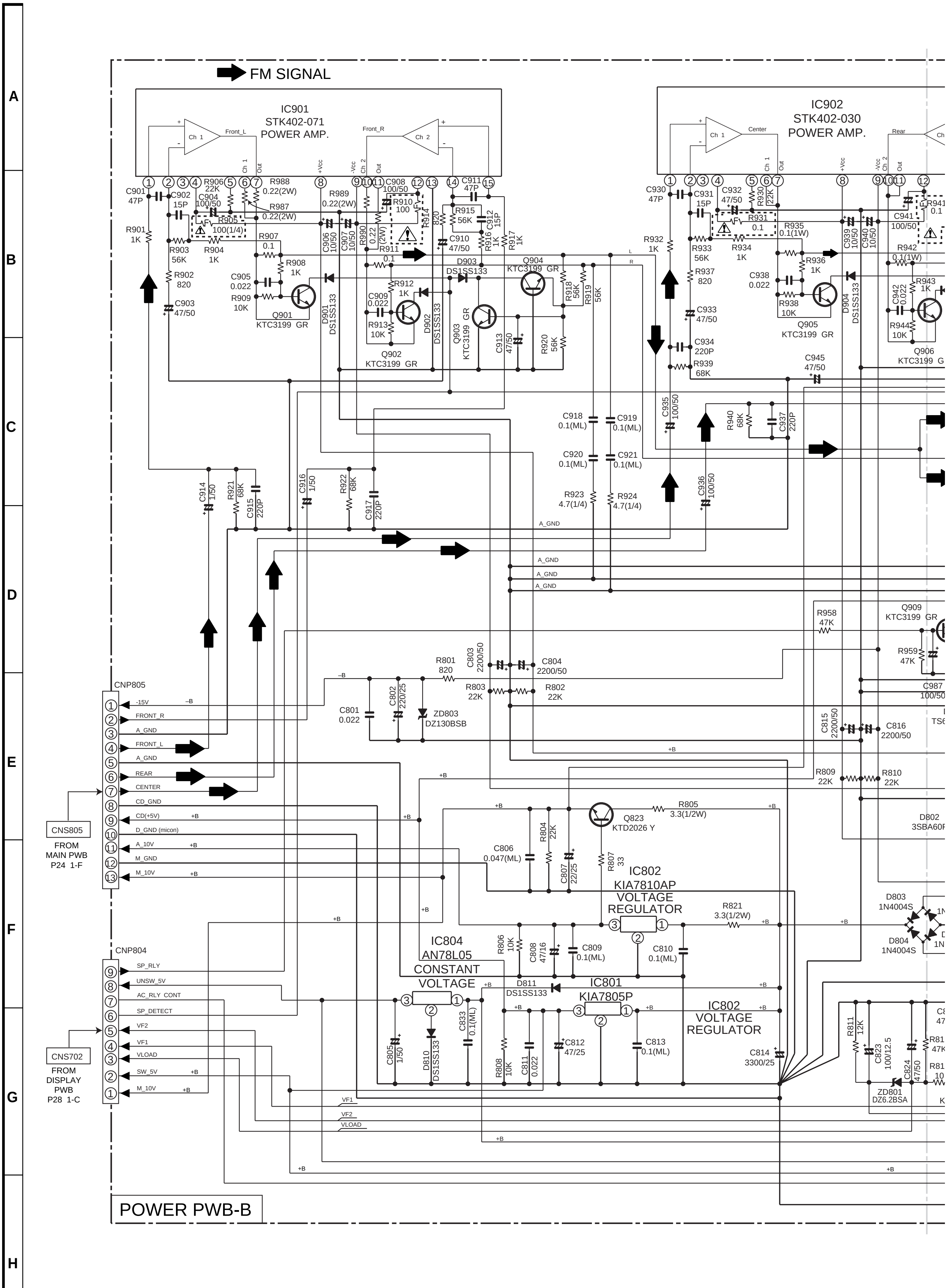
Q0	LED711	STOP
Q1	LED712	PLAY
Q2	LED713	FF
Q3	LED714	REW
Q4	LED715	CD DISC1
Q5	LED716	CD DISC2
Q6	LED717	CD DISC3
Q7		T_BIAS
Q8		T_TI/T2
Q9		T_REC/PLAY
Q10		
Q11		REV PLAY IND

IC703 LED DRIVER OUTPUT

Q0	LED701	BYPASS
Q1	LED702	NORMAL
Q2	LED703	PHANTOM
Q3	LED704	CD
Q4	LED705	TUNER
Q5	LED706	TAPE
Q6	LED707	VIDEO
Q7		VIDEO2
Q8	LED708 LED709 LED710	VOL IND
Q9		CMUTE
Q10		SRMUTE
Q11	LED718	REV_PLAY

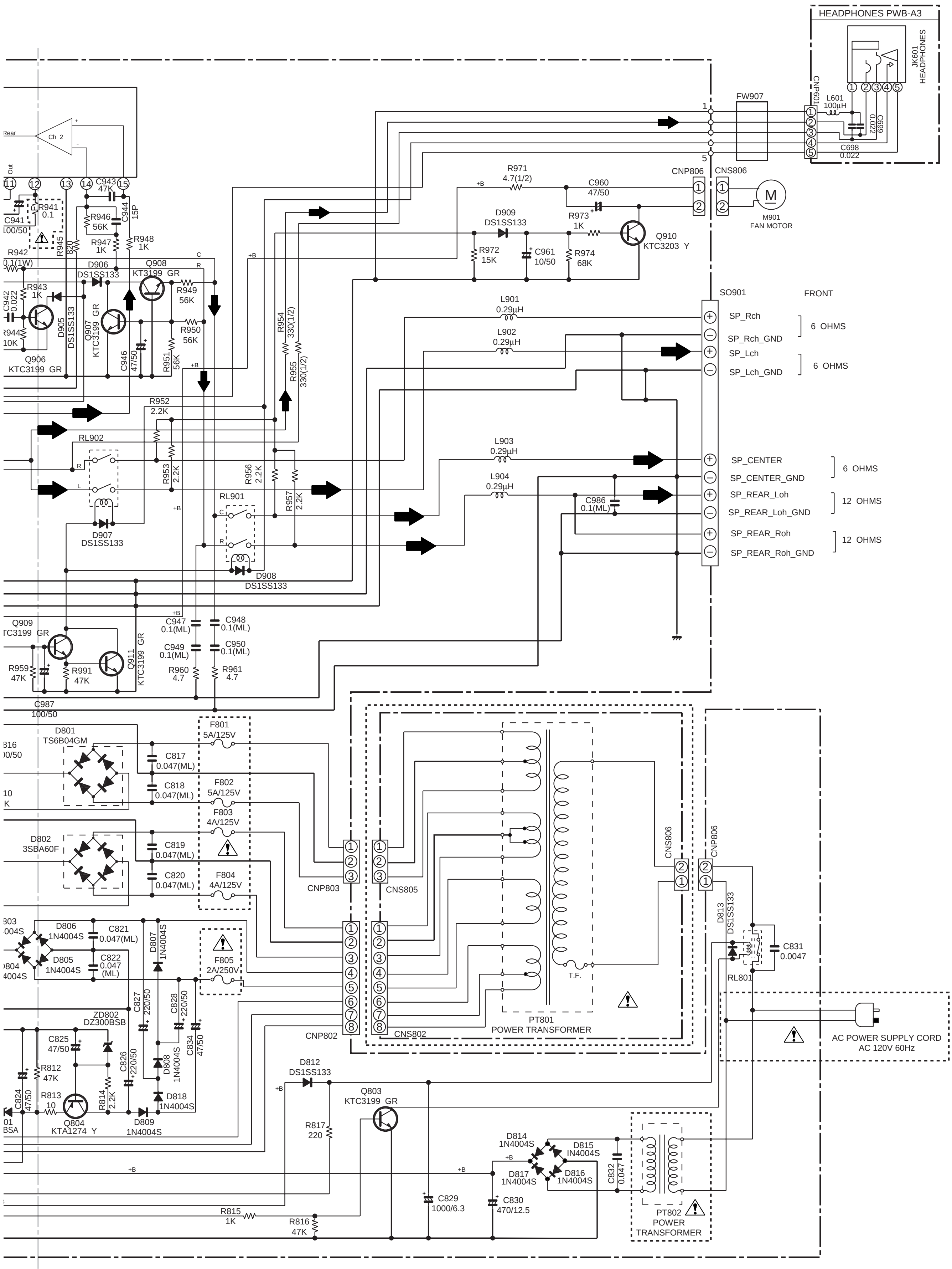
7	8	9	10	11	12

Figure 29 SCHEMATIC DIAGRAM (10/12)



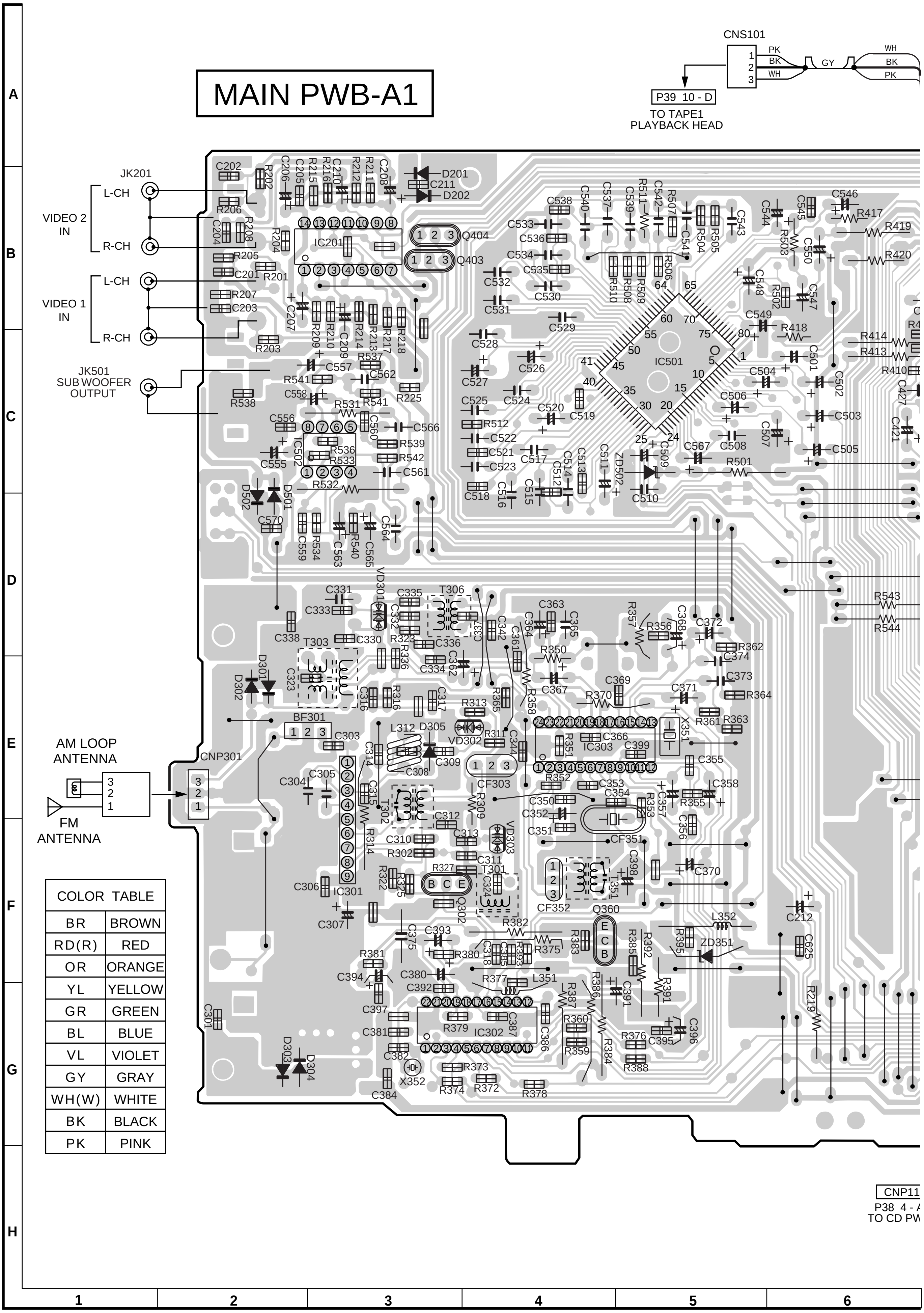
• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 30 SCHEMATIC DIAGRAM (11/12)



7	8	9	10	11	12

Figure 31 SCHEMATIC DIAGRAM (12/12)



COLOR	TABLE
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

Figure 32 WIRING SIDE OF P.W.BOARD (1/8)

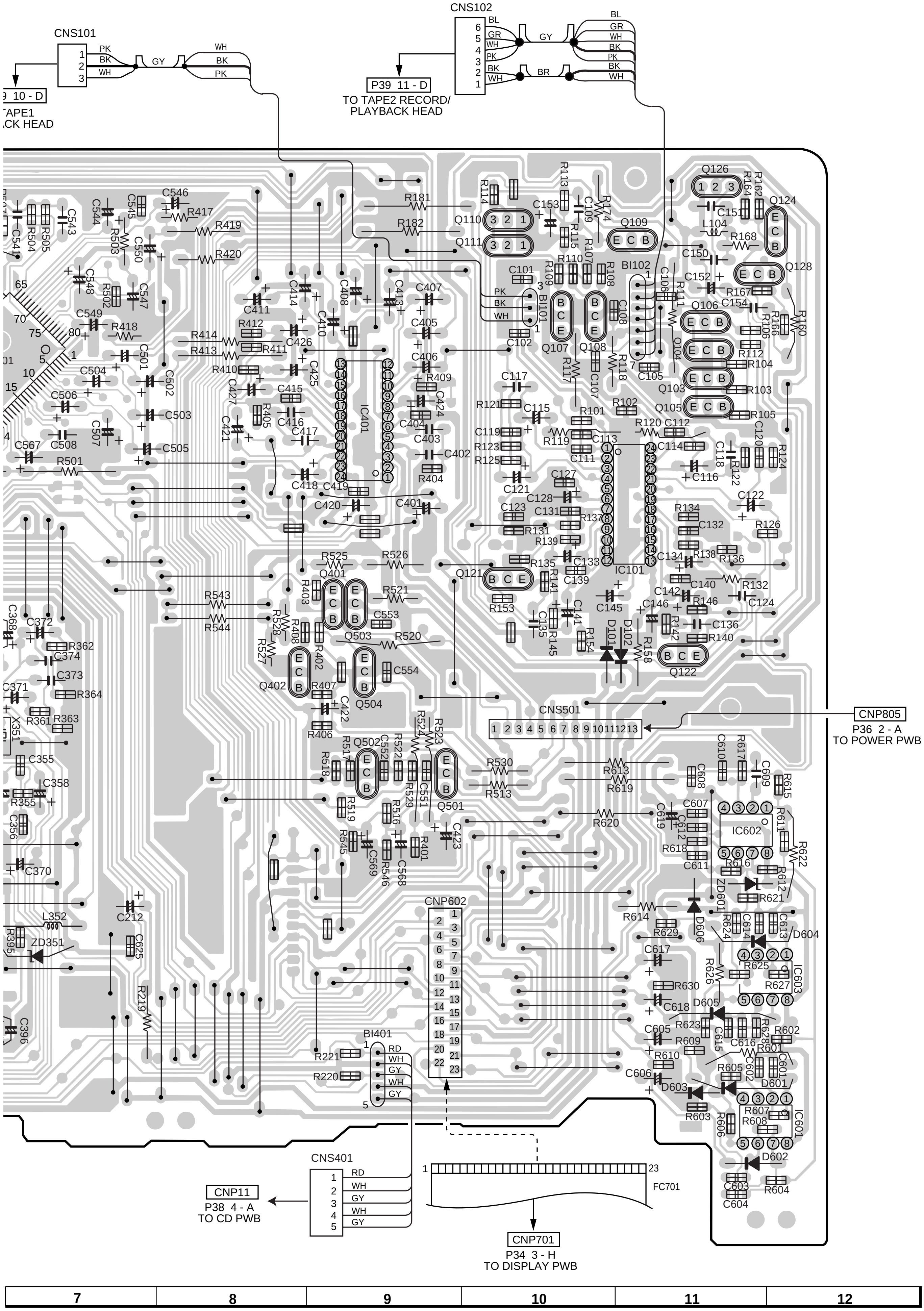


Figure 33 WIRING SIDE OF P.W.BOARD (2/8)

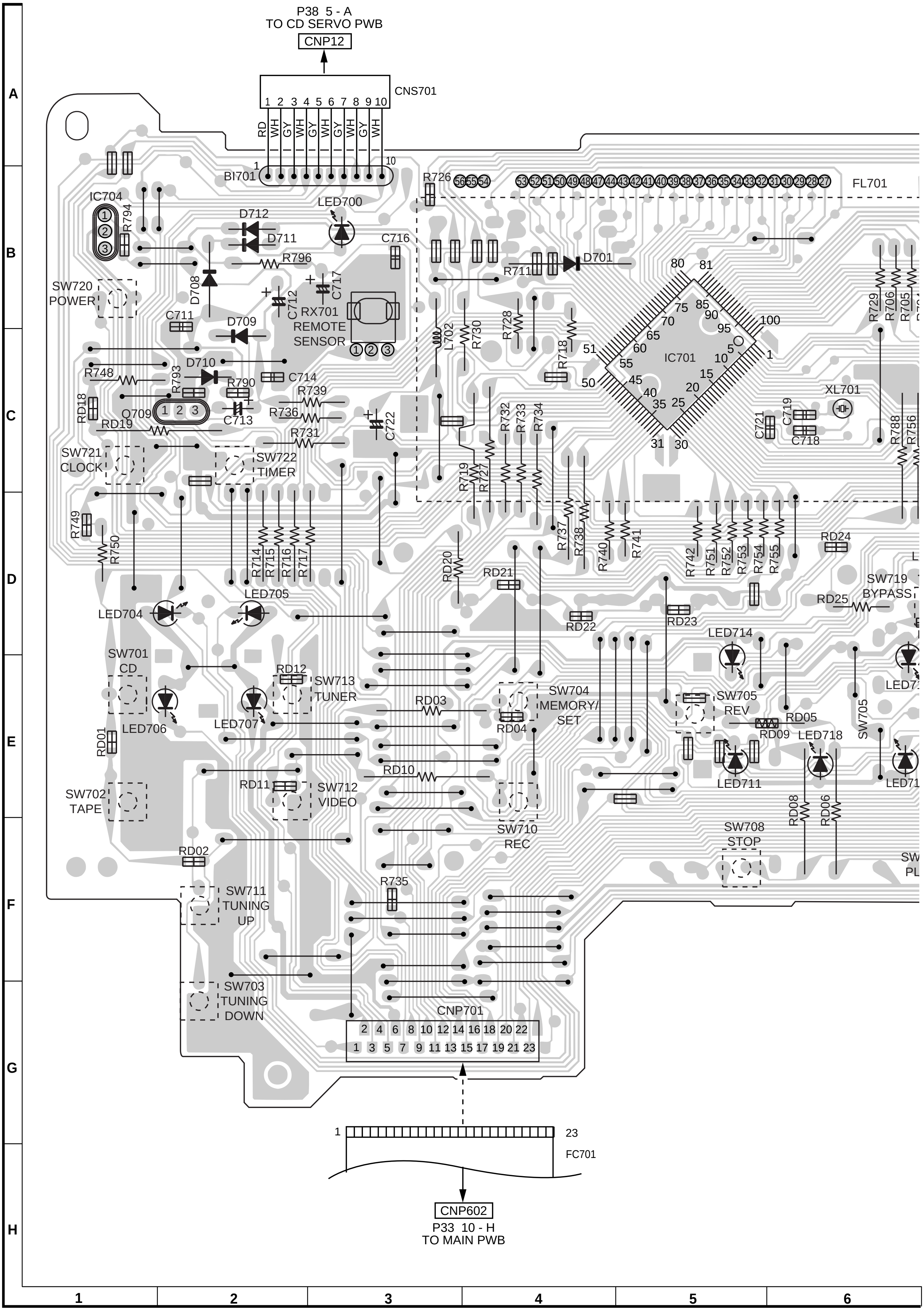
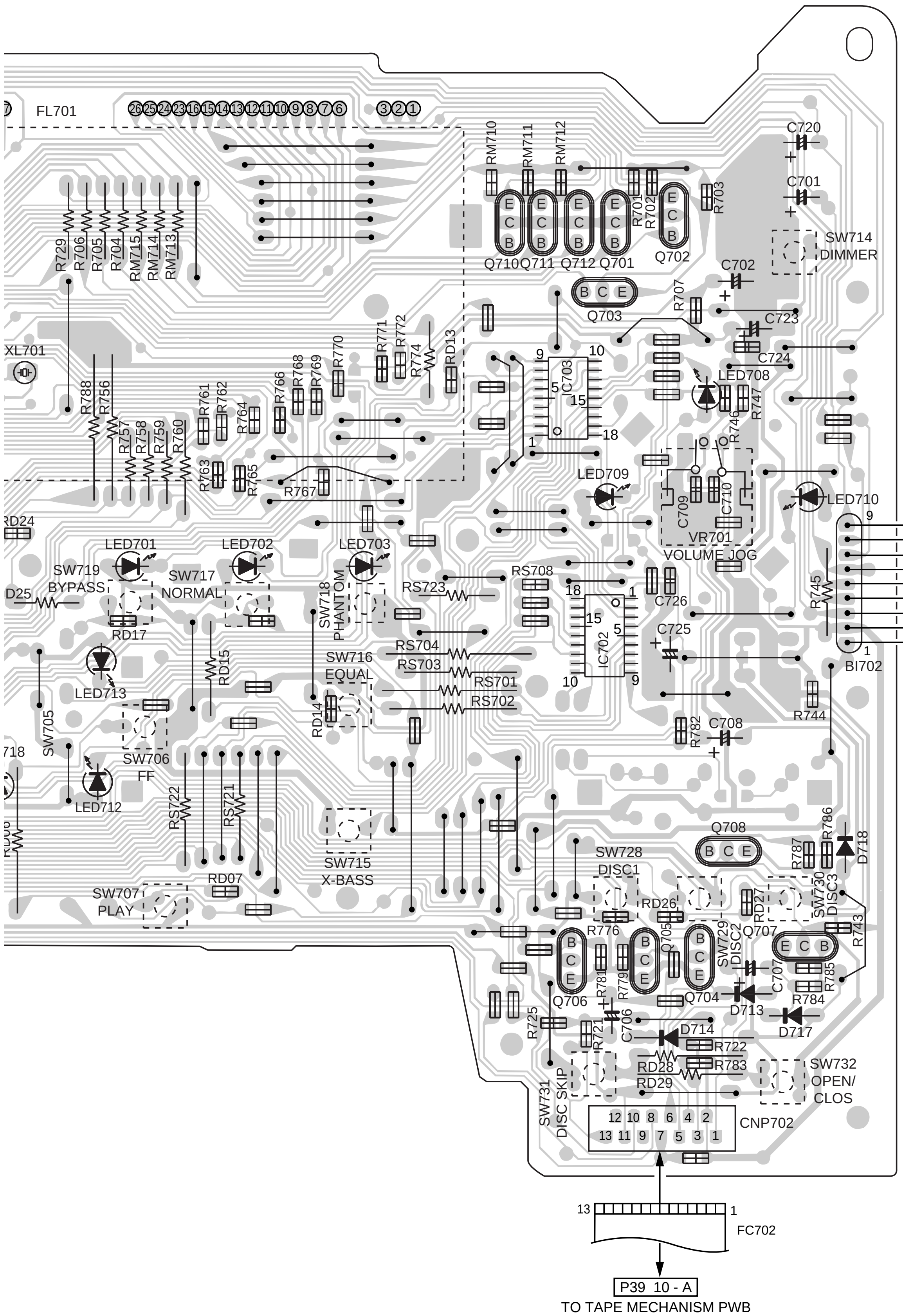


Figure 34 WIRING SIDE OF P.W.BOARD (3/8)

DISPLAY PWB-A2



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

7	8	9	10	11	12

Figure 35 WIRING SIDE OF P.W.BOARD (4/8)

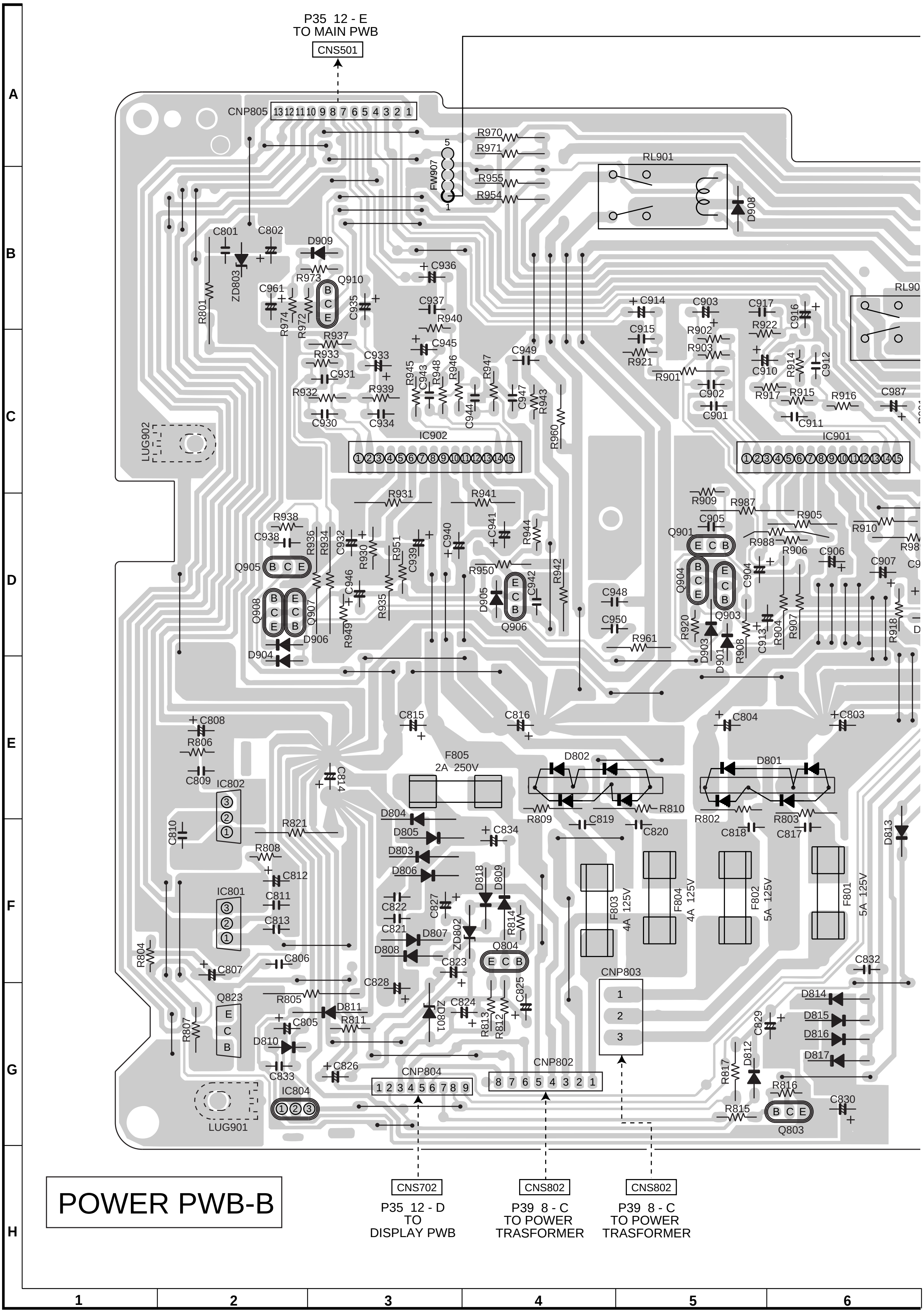
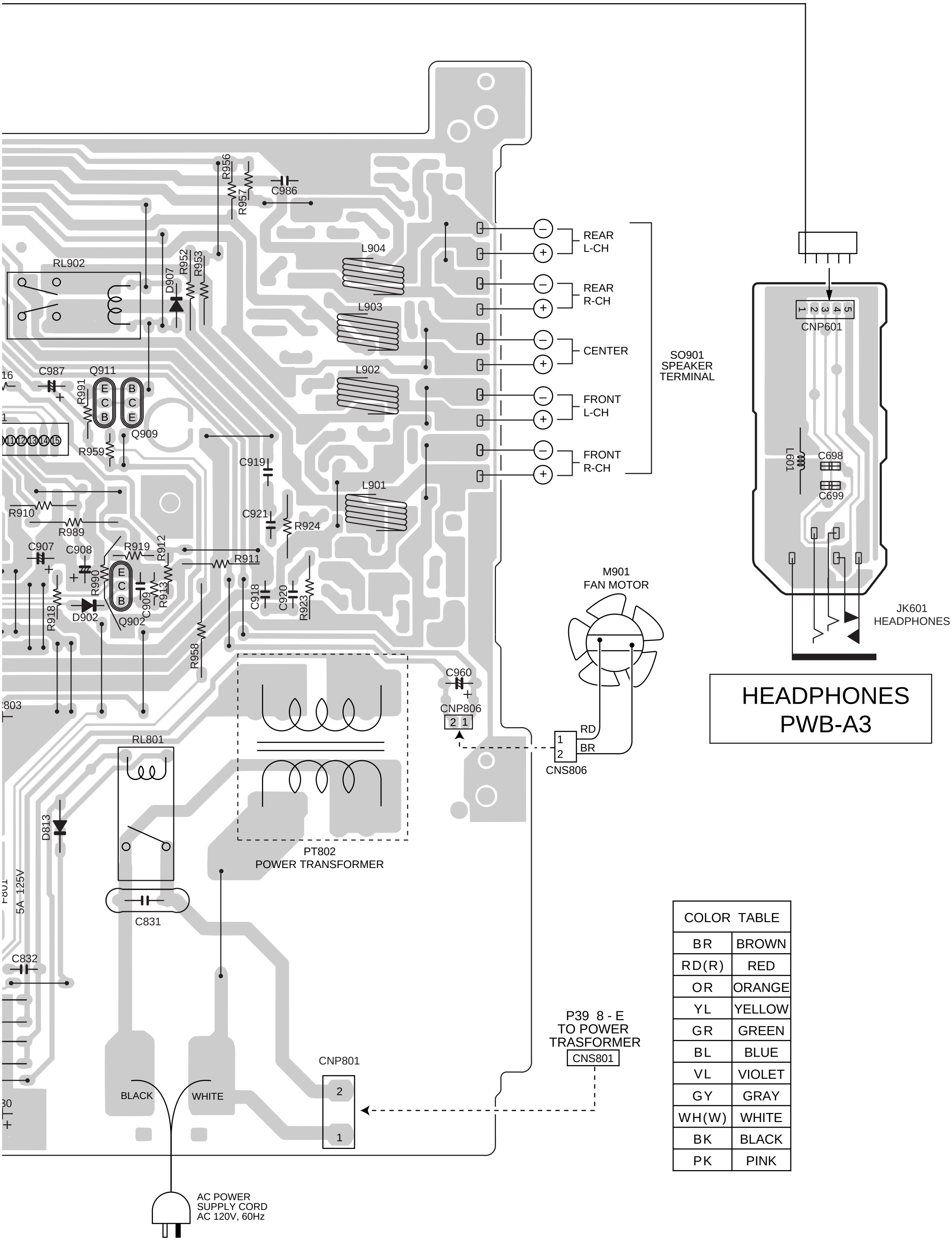


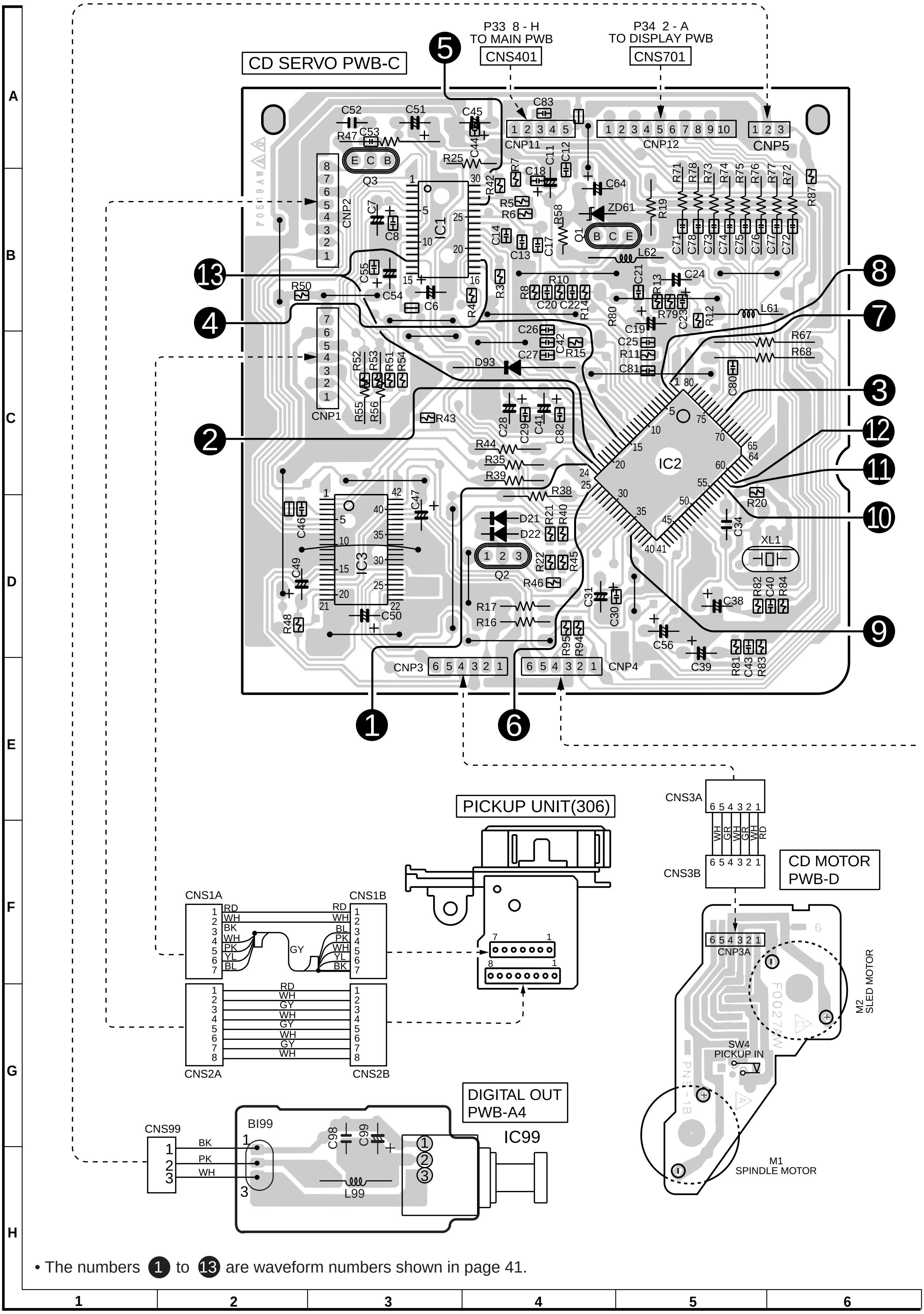
Figure 36 WIRING SIDE OF P.W.BOARD (5/8)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

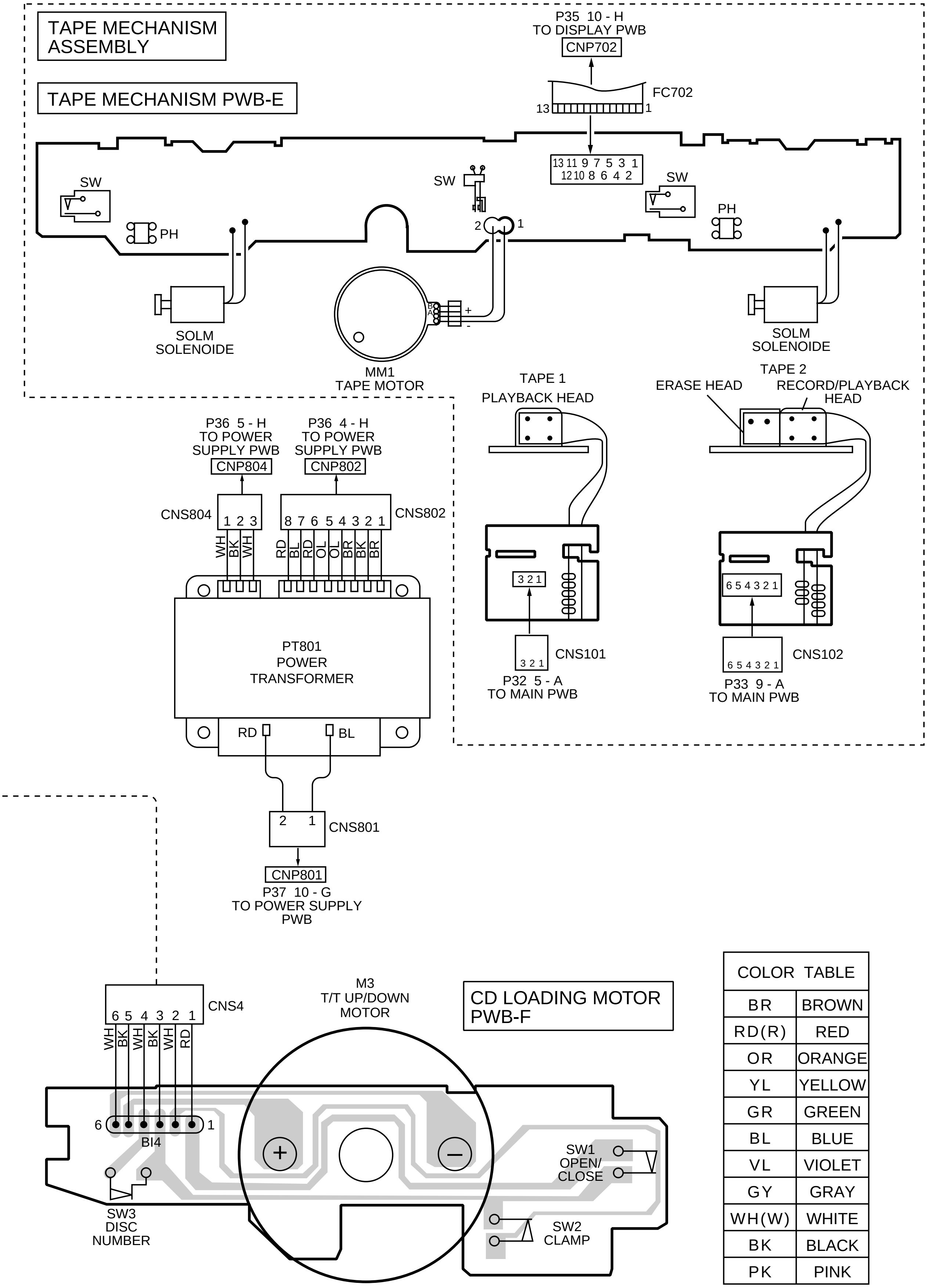
7	8	9	10	11	12

Figure 37 WIRING SIDE OF P.W.BOARD (6/8)



• The numbers 1 to 13 are waveform numbers shown in page 41.

Figure 38 WIRING SIDE OF P.W.BOARD (7/8)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

7	8	9	10	11	12

Figure 39 WIRING SIDE OF P.W.BOARD (8/8)

VOLTAGE

IC1

PIN NO.	VOLTAGE
1	1.6V
2	1.6V
3	1.6V
4	1.6V
5	1.6V
6	1.6V
7	0V
8	2.6V
9	0V
10	0V
11	0V
12	3.3V
13	1.6V
14	1.6V
15	1.6V
16	0V
17	0V
18	1.6V
19	1.6V
20	1.6V
21	1.6V
22	1.6V
23	0V
24	1.6V
25	0V
26	0V
27	0V
28	1.6V
29	1.6V
30	3.3V

IC3

PIN NO.	VOLTAGE
1	1.6V
2	1.6V
3	1.8V
4	2.1V
5	2.1V
6	2.1V
7	2.1V
8	0V
9	0V
10	0V
11	0V
12	0V
13	0V
14	0V
15	2.1V
16	2.1V
17	1.6V
18	4.9V
19	3.5V
20	1.6V
21	0V
22	0V
23	4.9V
24	4.9V
25	1.6V
26	2.1V
27	2.1V
28	1.9V
29	0V
30	0V
31	0V
32	0V
33	0V
34	0V
35	0V
36	4.2V
37	0V
38	2.1V
39	2.1V
40	4.9V
41	2.1V
42	2.1V

IC2

PIN NO.	VOLTAGE
1	0.7V
2	0V
3	0V
4	0V
5	3.3V
6	2.4V
7	0V
8	0V
9	1.6V
10	0V
11	4.7V
12	1.7V
13	0V
14	1.6V
15	1.6V
16	1.6V
17	1.6V
18	3.3V
19	0V
20	1.6V
21	1.6V
22	1.6V
23	1.6V
24	1.6V
25	1.6V
26	1.6V
27	1.6V
28	0V
29	0V
30	2.1V
31	2.1V
32	0V
33	3.3V
34	3.5V
35	3.3V
36	3.3V
37	3.3V
38	1.6V
39	1.6V
40	0V
41	0V
42	3.3V
43	3.3V
44	3.0V
45	1.5V
46	0V
47	0V
48	1.5V
49	3.0V
50	3.3V
51	1.8V
52	3.0V
53	0V
54	0V
55	0V
56	0V
57	1.7V
58	3.3V
59	0V
60	3.0V
61	1.6V
62	0V
63	2.4V
64	0V
65	0V
66	0V
67	0V
68	4.8V
69	4.9V
70	4.9V
71	4.6V
72	0V
73	4.9V
74	0V
75	0V
76	0V
77	3.2V
78	0V
79	0V
80	3.4V

IC101

PIN NO.	VOLTAGE
1	0V (0V)
2	0V (0V)
3	0.5V (0.5V)
4	1.9V (1.9V)
5	0V (0V)
6	0V (0V)
7	0V (0V)
8	0.6V (0.6V)
9	3.3V (3.3V)
10	3.3V (3.3V)
11	0V (0V)
12	0V (0V)
13	6.7V (6.7V)
14	4.0V (4.0V)
15	0V (0V)
16	3.3V (3.3V)
17	0.6V (0.6V)
18	0V (0V)
19	0V (0V)
20	0V (0V)
21	1.9V (1.9V)
22	0.5V (0.5V)
23	0V (0V)
24	0V (0V)

IC301

PIN NO.	VOLTAGE
1	0.8V (0V)
2	1.5V (0V)
3	3.6V (0.4V)
4	1.5V (0V)
5	0V (0V)
6	3.6V (0.4V)
7	2.8V (0.2V)
8	3.5V (0.3V)
9	3.6V (0.3V)

IC302

PIN NO.	VOLTAGE
1	2.4V (2.4V)
2	0V (0V)
3	0V (0V)
4	0V (0V)
5	4.6V (4.7V)
6	4.8V (4.9V)
7	0.1V (9.9V)
8	4.2V (0V)
9	3.3V (0V)
10	3.4V (0V)
11	4.6V (4.9V)
12	2.2V (0V)
13	4.6V (4.9V)
14	0V (0V)
15	0V (2.4V)
16	2.3V (0V)
17	4.6V (4.9V)
18	0.8V (4.9V)
19	0.8V (4.9V)
20	1.1V (0V)
21	0V (0V)
22	2.5V (3.0V)

IC602

PIN NO.	VOLTAGE
1	13.1V
2	13.1V
3	1.3V
4	0V
5	1.3V
6	13.2V
7	13.1V
8	18.3V

IC303

PIN NO.	VOLTAGE
1	2.1V (2.1V)
2	4.5V (4.5V)
3	2.1V (2.1V)
4	2.1V (2.1V)
5	0V (0V)
6	4.6V (4.9V)
7	4.6V 4.9V)
8	2.4V (3.2V)
9	4.5V (4.8V)
10	3.9V (0V)
11	3.3V (1.6V)
12	3.3V (1.1V)
13	3.5V (2.0V)
14	1.2V (1.2V)
15	1.2V (1.2V)
16	2.0V (2.0V)
17	2.7V (0V)
18	2.1V (0.9V)
19	0V (1.9V)
20	0.3V (0.9V)
21	2.6V (2.0V)
22	2.6V (2.0V)
23	4.5V (4.8V)
24	3.0V (3.3V)

IC601

PIN NO.	VOLTAGE
1	13.0V
2	130V
3	12.8V
4	0V
5	12.8V
6	13.0V
7	13.0V
8	18.3V

IC603

PIN NO.	VOLTAGE
1	13.1V
2	13.1V
3	1.4V
4	0V
5	1.4V
6	13.1V
7	13.1V
8	18.3V

IC702

PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	0V
5	7.8V
6	7.8V
7	7.8V
8	7.8V
9	12.3V
10	0V
11	0V
12	0V
13	1.0V
14	1.9V
15	1.6V
16	1.6V
17	0V
18	0.5V

IC701

PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	4.6V	51	4.9V
2	4.6V	52	0V
3	4.6V	53	0V
4	0V	54	4.9V
5	0V	55	4.9V
6	0V	56	4.9V
7	4.8V	57	4.9V
8	0V	58	0V
9	4.8V	59	–34.3V
10	4.7V	60	–20.1V
11	4.9V	61	–16.4V
12	2.6V	62	–12.2V
13	0V	63	–16.5V
14	0V	64	–14.2V
15	4.8V	65	–31.9V
16	4.6V	66	–29.7V
17	4.6V	67	–31.9V
18	0V	68	–29.7V
19	4.9V	69	–18.5V
20	0V	70	–29.7V
21	0V	71	–27.5V
22	0V	72	–29.8V
23	0V	73	–18.8V
24	4.8V	74	–18.8V
25	0V	75	–27.7V
26	0V	76	–23.4V
27	0V	77	23.1V
28	0V	78	20.9V
29	0V	79	–34.1V
30	0V	80	–18.9V
31	4.9V	81	–28.7V
32	5.0V	82	–26.0V
33	4.9V	83	–29.8V
34	4.6V	84	–27.5V
35	6.0V	85	–29.7V
36	4.9V	86	–20.6V
37	4.9V	87	–20.5V
38	0V	88	–31.9V
39	4.8V	89	–31.8V
40	0V	90	–31.8V
41	1.9V	91	–32.0V
42	9.1V	92	–31.9V
43	9.1V	93	–31.9V
44	0V	94	–31.9V
45	3.6V	95	–31.9V
46	4.6V	96	–31.9V
47	4.5V	97	–31.9V
48	4.5V	98	–31.9V
49	4.9V	99	–31.9V
50	3.0V	100	–31.9V

IC401

PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	5.0V
5	5.0V
6	5.0V
7	5.0V
8	5.0V
9	5.0V
10	5.0V
11	5.0V
12	5.0V
13	5.0V
14	5.0V
15	5.0V
16	5.0V
17	5.0V
18	5.0V
19	5.0V
20	5.0V
21	5.0V
22	5.0V
23	10.0V
24	0V

IC801

PIN NO.	VOLTAGE
1	17.3V
2	0V
3	5V

Q823

PIN NO.	VOLTAGE
1	16.6V
2	5.6V
3	0V

IC802

PIN NO.	VOLTAGE
1	5V
2	5V
3	5V
4	0V
5	5V
6	5V
7	5V
8	10.0V

IC902

PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	25.7V
5	–25.7V
6	0V
7	0V
8	26.9V
9	–26.9V
10	0V
11	0V
12	–25.6V
13	0V
14	–0.1V
15	–0.1V

IC703

PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	0V
5	0V
6	7.8V
7	7.8V
8	7.8V
9	7.8V
10	7.8V
11	0V
12	2.8V
13	0.5V
14	1.3V
15	1.3V
16	0V
17	0V
18	5.0V

IC704

PIN NO.	VOLTAGE
1	5.0V
2	0V
3	5.0V

IC804

PIN NO.	VOLTAGE
1	18.2V
2	0V
3	5.0V

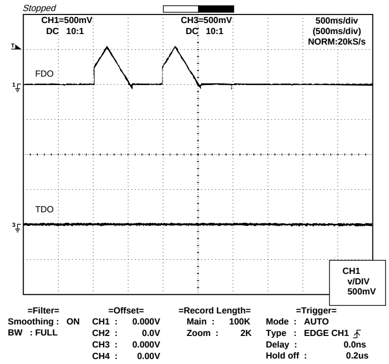
IC201

PIN NO.	VOLTAGE
1	4.3V
2	4.3V
3	4.3V
4	4.3V
5	8.6V
6	0V
7	0V
8	4.3V
9	4.3V
10	4.3V
11	4.3V
12	0V
13	8.6V
14	8.6V

IC501

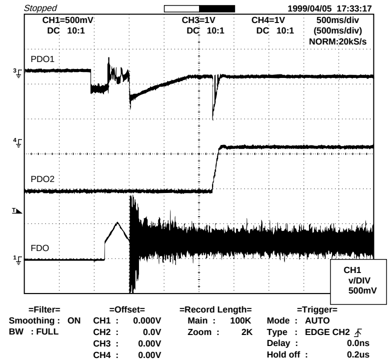
PIN NO.	VOLTAGE
1	4.9V
2	4.9V
3	3.9V
4	2.7V
5	4.9V
6	4.9V
7	4.9V
8	4.9V
9	3.9V
10	2.7V
11	4.7V
12	4.8V
13	2.7V
14	3.9V
15	0V
16	0V
17	0V
18	0V
19	4.8V
20	0V
21	4.8V
22	4.6V
23	0V
24	0V
25	0V
26	4.7V
27	2.8V
28	2.6V
29	2.6V
30	2.6V
31	2.6V
32	2.6V
33	0.6V
34	0.6V
35	2.6V
36	2.6V
37	2.6V
38	2.6V
39	2.6V
40	0V
41	4.6V
42	4.6V
43	4.6V
44	4.6V
45	0V
46	4.6V
47	4.6V
48	4.6V
49	4.6V
50	4.5V
51	4.5V
52	4.2V
53	4.6V
54	4.6V
55	4.3V
56	4.3V
57	4.7V
58	4.5V
59	4.2V
60	4.4V
61	4.6V
62	4.4V
63	4.4V
64	4.4V
65	4.4V
66	4.4V
67	4.4V
68	2.8V
69	9.9V
70	4.3V
71	1.3V
72	0V
73	0V
74	4.3V
75	4.4V
76	0V
77	0V
78	0V
79	0V
80	0V

WAVEFORMS OF CD CIRCUIT



❶ IC2 (24)

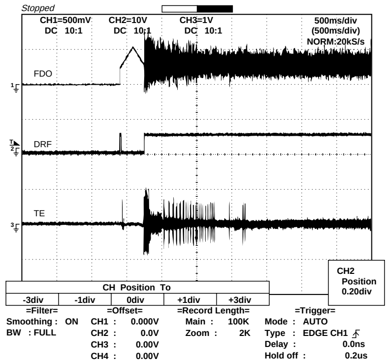
❷ IC2 (23)



❼ IC2 (1)

❽ IC2 (2)

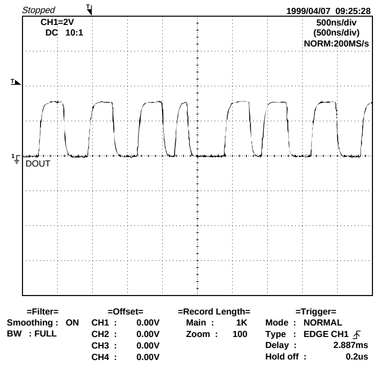
❶ IC2 (24)



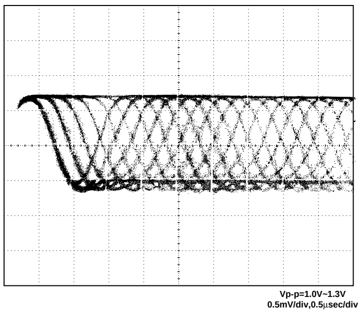
❶ IC2 (24)

❸ IC2 (72)

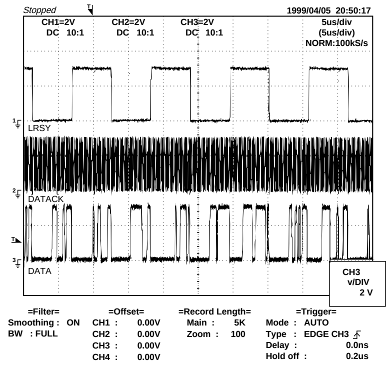
❹ IC1 (18), IC2 (16)



❾ IC2 (37)



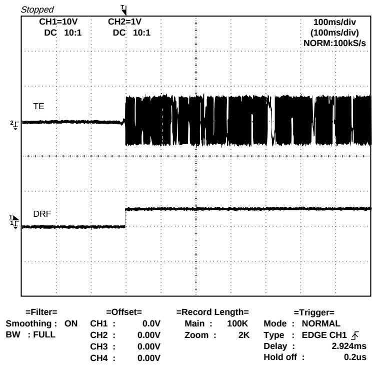
❺ IC1 (27)



❿ IC2 (57)

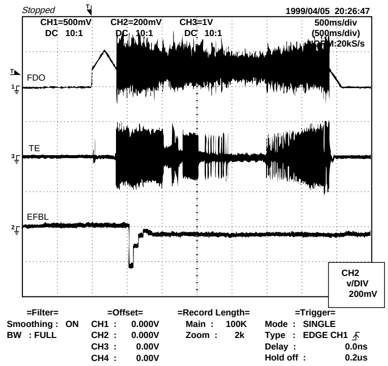
⓫ IC2 (58)

⓬ IC2 (59)



❹ IC1 (18), IC2 (16)

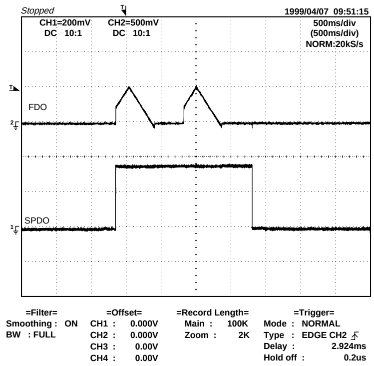
❸ IC2 (72)



❶ IC2 (24)

❹ IC1 (18), IC2 (16)

⓭ IC1 (13), IC2 (22)



❶ IC2 (24)

❻ IC2 (25)

TROUBLE SHOOTING

When the CD does not function

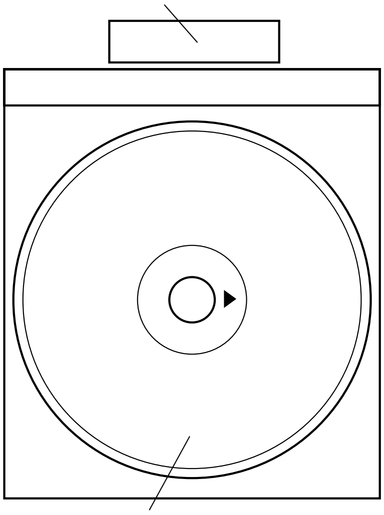
When the CD section does not operate when the objective lens of the optical pickup is dirty, this section may not operate. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.
Remove the cabinet and follow the trouble shooting instructions.
"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.
Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.
Do not touch the lens with the bare hand.

		Parts code
1.	CD optical pickup Lens cleaner disc	UDSKA0004AFZZ

HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down,then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it continuous to tum, press the stop button.



CAUTION

- The CD lens cleaner should be effective for 30-50 operations, however if the brushes become worn out earlier then please the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it to come in contact with the eyes. In the event of this happening then drink and / or rines with clean water and seek medical advice.
- The CD cleaner disk must not be used on car CD players or on computer CD ROM drives.
- All rights reserved.Unauthorized duplicating, broadcasting and renting this product is

When a CD cannot be played

1. "E-CD01" is displayed.

(1) Check the power to IC2 (LC78641E), the presence of the clock signal (16.93 MHz) and the status of the RESET terminal (pin 71 on IC2).
(2) Did the pickup move to the PICKUP-IN Switch (SW4) position?

If (1) and (2) are OK, check the system microcomputer (especially the communication line with the DSP).

2. Pressing the CD operation key is accepted, but playback does not occur.

(1) Focus-HF system check
(2) Tracking system check
(3) Spin system check
(4) PLL system check
(5) Others

(1) Focus-HF system check

Although a CD is inserted and the cover is closed, "NO DISC" is displayed.

Press the OPEN/CLOSE switch (SW1) without inserting a disc, and try starting the playback operation.

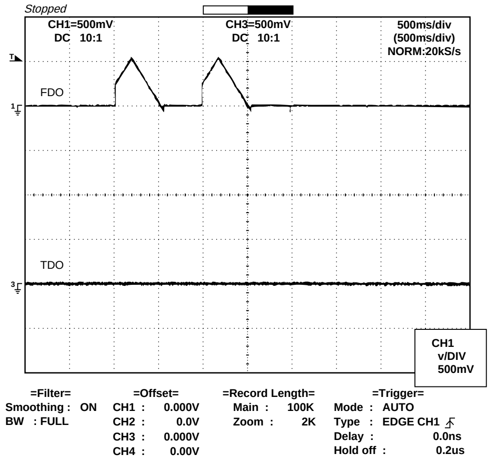


Figure 43-1

1. Did the pickup move to the PICKUP-IN Switch (SW4) position?
   - No → Sled motor (M2)
   - Yes ↓
2. Does the focus (lens) move up and down? (Waveform drawing 43-1).
   - No → Check the focus peripheral circuit.
   - Yes ↓
3. Is the laser lit?
   - No → Check the laser diode driver Q3 peripheral circuit.
   - Yes ↓
4. Is the turntable rotating?
   - No → Spindle motor (M1).

When a disc is loaded, start playback operation.

1. Is focus servo activated? (Waveform drawing 43-2)
   - No → Pins 1~11 on IC1
     Check the laser diode driver Q3 peripheral circuit.
     Focus error circuit (pins 20 and 21 on IC1)
   - Yes ↓
2. Does DRF change from "L" to "H"?
   - No → Is the disc rotating? — No → Check the spin system.
     If the disc is spinning and a HF waveform is generated, DRF will go H.
   - Yes ↓
3. Is the HF waveform normal? (Waveform drawing 43-3)
   - No → If the level is not normal, check around pins 27~29 on IC1.

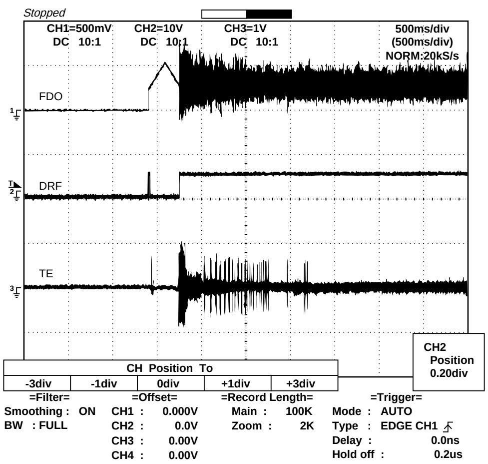


Figure 43-2

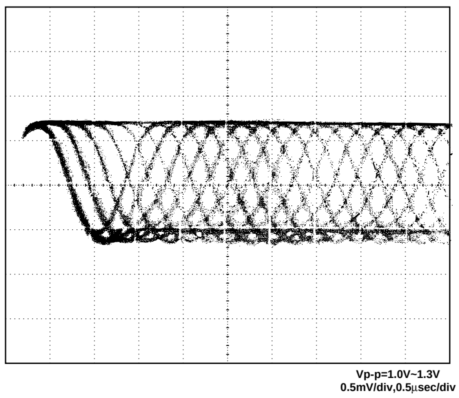


Figure 43-3

(2) Tracking system check

Check the TE waveform at pin 18 on IC1.

If the waveform shown in Figure 44-1 appears and soon after NO DISC appears.
→ Yes → The tracking servo is not activated.
Check the peripheral circuits at pins 18 and 19 on IC1, pin 23 on IC2, and CNS1A/B.

↓ No

"Initialization" is possible, but play is not possible.
→ Yes → A normal jump operation cannot be completed or the beginning of the track cannot be found.
Check the around pin 23 on IC2.

↓ No

"Initialization" is not possible.
→ Data cannot be read. Check the VCO-PLL system.

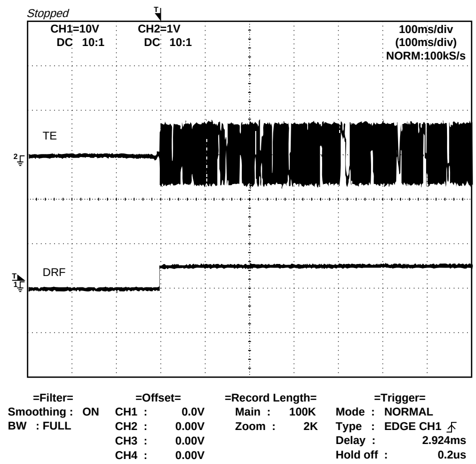


Figure 44-1

(3) Spin system check

Press the OPEN/CLOSE switch without inserting a disc, and then try starting the play operation.

↓

1. The turntable rotates a little. (Waveform drawing 44-2)
→ Yes → The spin driver circuit is OK.

↓ No

2. The turntable doesn't rotate.
→ Check around pin 25 on IC2, pins 15 and 16 on IC3, and CNS3A/B.

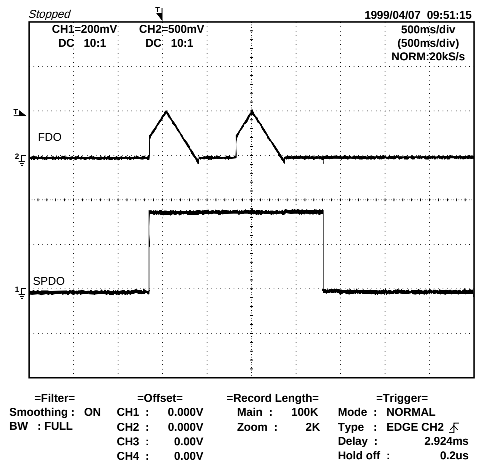


Figure 44-2

(4) PLL system check

When a disc is loaded, start play operation.

↓

The HF waveform is normal, but the TOC data cannot be read.

↓

Check the PDO waveform. (Figure 45-1)

↓

Check around pins 1~6 on IC2.

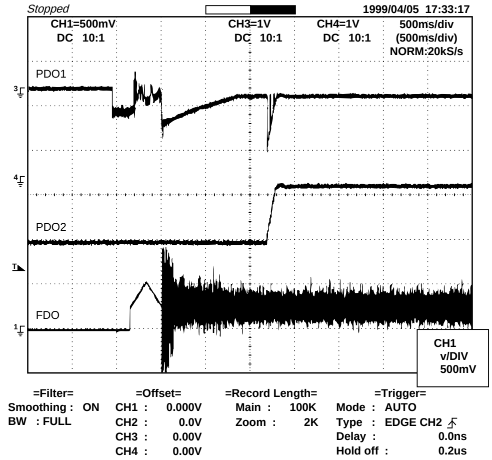


Figure 45-1

(5) Others

The HF waveform is normal and the time is displayed normally, but no sound is produced. Or the sound has dropouts.

Is pin 35 (C2F) on IC2 "L"?

- No → There are too many error flags on a damaged disc which makes error correction impossible.

  ↓

  Check again using a known good disc.

- Yes ↓

1. When playing at normal speed
   Check the peripheral circuit at pin 37 (DOUT) on IC2 and the waveform (Figure 45-2).

↓

If both 1. and 2. are OK.

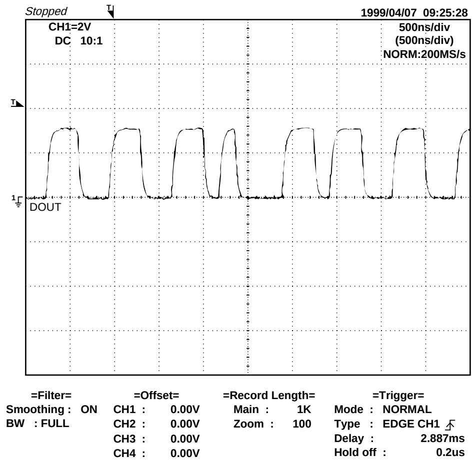
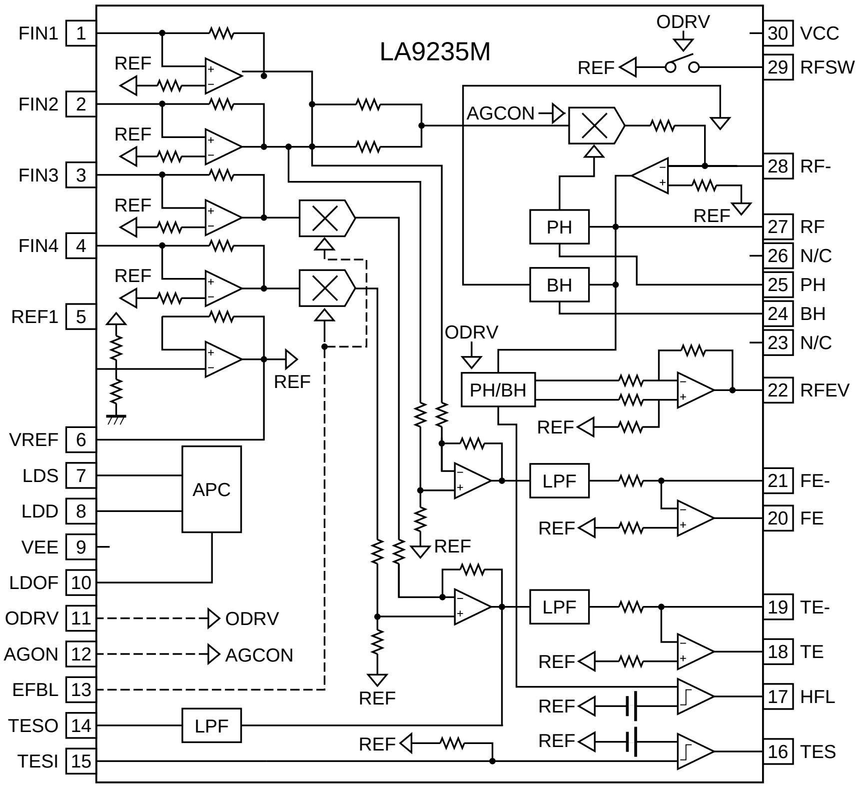


Figure 45-2

FUNCTION TABLE OF IC

IC1 VHiLA9235M/-1: Servo Amp. (LA9235M)



IC2 VHiLC78641E-1: Servo/Signal Control (LC78641E)

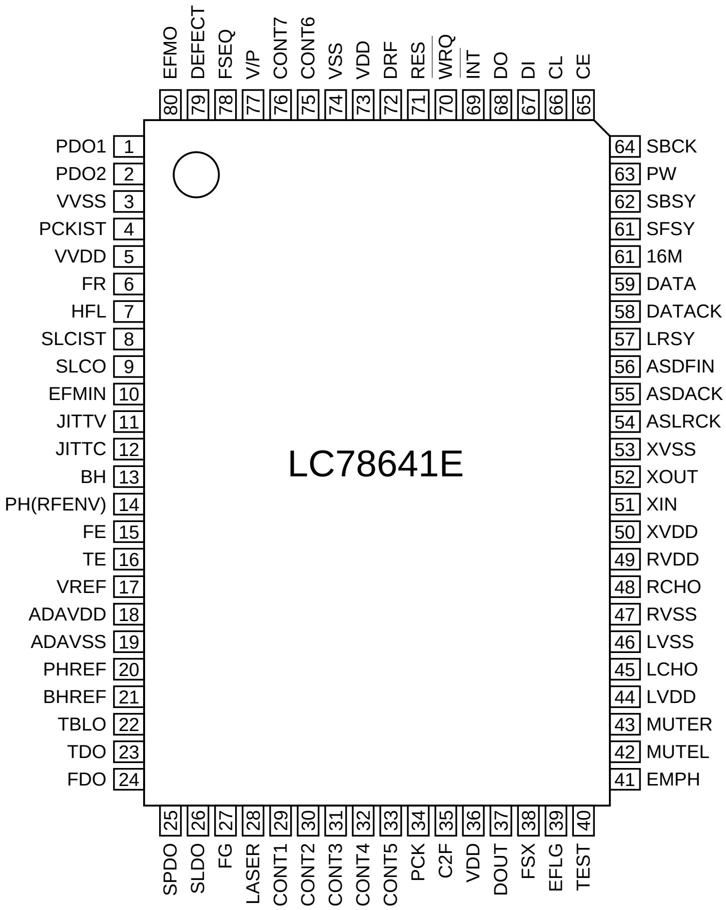


Figure 46 BLOCK DIAGRAM OF IC

IC2 VHiLC78641E-1: Servo/Signal Control (LC78641E) (1/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function		
1	PDO1	Output	–	For PULL	Phase-comparison output terminal for built-in VOC control.	
2	PDO2	Output	–		Phase-comparison output terminal for built-in VOC control. Rough servo : OFF, phase servo : ON.	
3	VVSS	–	–		Ground terminal for built-in VCO.	
4	PCKIST	AI	–		Resistor terminal for setting the PDO output current.	
5	VVDD	–	–		Power terminal for built-in VCO.	
6	FR	AI	–		Resistor terminal for setting the VCO frequency range.	
7	HFL	Input	–	Mirror detection signal input terminal.		
8	SLCIST	AI	–	For slice level control	Resistance connection terminal for current adjustment of SLCO output.	
9	SLCO	Output	–		Control output.	
10	EFMIN	Input	–		EFM signal input terminal.	
11*	JITTV	Output	Unfixed	Jitter detection/monitor terminal.		
12	JITTC	Output	–	Jitter detection/adjustment terminal.		
13	BH	Input	–	BH signal input terminal. A/D input.		
14	PH(RFENV)	Input	–	PH signal or RFENV signal input terminal. A/D input.		
15	FE	Input	–	FE signal input terminal. A/D input.		
16	TE	Input	–	TE signal input terminal. A/D input.		
17	VREF	Input	–	VREF signal input terminal. A/D input.		
18	ADAVDD	–	–	AD for servo, D/A power terminal.		
19	ADAVSS	–	–	AD for servo, D/A ground terminal.		
20*	PHREF	Output	(1/2VDD)	PH reference output terminal. D/A output.		
21*	BHREF	Output	(1/2VDD)	BH reference output terminal. D/A output.		
22	TBLO	Output	(1/2VDD)	Output terminal for tracking balance. D/A output.		
23	TDO	Output	(1/2VDD)	Output terminal for tracking control. D/A output.		
24	FDO	Output	(1/2VDD)	Output terminal for focus control. D/A output.		
25	SPDO	Output	(1/2VDD)	Output terminal for spindle control. D/A output.		
26	SLDO	Output	(1/2VDD)	Output terminal for sled control. D/A output.		
27*	FG	Input	–	FG signal input terminal. (When not used,connect to 0V)		
28	LASER	Output	L	LASER ON/OFF control terminal.		
29	CONT1	In/Output	Input mode	General purpose input/output terminal 1.		Controlled with serial data command from microcomputer. When not used, set it as the input terminal and open it by connecting to 0V, or set it as the output terminal and open it.
30	CONT2	In/Output	Input mode	General purpose input/output terminal 2.		
31	CONT3	In/Output	Input mode	General purpose input/output terminal 3.		
32	CONT4	In/Output	Input mode	General purpose input/output terminal 4.		
33	CONT5	In/Output	Input mode	General purpose input/output terminal 5.		
34*	PCK	Output	H	Clock monitor terminal for EFM data replay. 4.3218MHz as phase clock.		
35*	C2F	Output	H	C2 flag output terminal.		
36	VDD	–	–	Power terminal of digital system.		
37*	DOUT	Output	L	Output terminal of digital OUT. (EIAJ format)		
38*	FSX	Output	L	Output terminal of synchronous signal of 7.35kHz divided from quartz oscillation.		
39*	EFLG	Output	L	C1,C2 correct monitor terminal.		
40	TEST	Input	–	Input terminal for test. Surely connected to 0V.		
41*	EMPH	In/Output	Input mode	Emphasis terminal. After resetting, it is configured as an input terminal. It can be controlled from the outside. It is also becomes a emphasis monitor terminal under command control.		
42*	MUTEL	Output	H	Mute output terminal for L channel.		
43*	MUTER	Output	H	Mute output terminal for R channel.		

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC2 VHiLC78641E-1: Servo/Signal Control (LC78641E) (2/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
44	LVDD	–	–	L channel D/A converter	Power terminal for L channel.
45	LCHO	Output	1/2VDD		L channel output terminal.
46	LVSS	–	–		Ground terminal for L channel. Surely connected to 0V.
47	RVSS	–	–	R channel D/A converter	Ground terminal for R channel. Surely connected to 0V.
48	RCHO	OUTPUT	1/2VDD		R channel output terminal.
49	RVDD	–	–		Power terminal for R channel.
50	XVDD	–	–	For quartz oscillation	Power terminal for quartz oscillation.
51	XIN	Input	Oscillation		Ground terminal of 16.9344MHz quartz oscillation.
52	XOUT	Output	Oscillation		
53	XVSS	–	–		Ground terminal for quartz oscillation. Surely connected to 0V.
54	ASLRCK	Input	–	For anti shock mode	L/R clock input terminal. (When not used,connect to 0V)
55	ASDACK	Input	–		Bit clock input terminal. (When not used,connect to 0V)
56	ASDFIN	Input	–		L/R channel data input terminal. (When not used,connect to 0V)
57*	LRSY	Output	L	For digital data output	L/R clock output terminal.
58*	DATACK	Output	L		Bit clock output terminal.
59*	DATA	Output	L		L/R channel data output terminal.
60*	16M	Output	Clock output	16.9344MHz output terminal.	
61*	SFSY	Output	L	Output terminal of synchronous signal of subcode frame. It drops when subcode stand by.	
62*	SBSY	Output	L	Output terminal of synchronous signal of subcode block.	
63*	PW	Output	L	Output terminal of subcodes P,A,R,S,T,U and W.	
64	SBCK	Input	–	Clock input terminal to read subcode. (When not used,connect to 0V)	
65	CE	Input	–	For microcomputer interface	Chip enable signal input terminal.
66	CL	Input	–		Data transmission clock input terminal.
67	DI	Input	–		Data input terminal.
68	DO	Output	L		Data output terminal.
69	INT	Output	H		Interruption signal output terminal.
70	WRQ	Output	H		Interruption signal output terminal.
71	RES	Input	–	Reset input terminal of LC78640. When turning on power, set it at "L".	
72	DRF	Output	L	Focus ON detection terminal.	
73	VDD5V	–	–	Power terminal for microcomputer interface.	
74	VSS	–	–	Ground terminal of digital system. Surely connected to 0V.	
75	CONT6	In/Output	Input mode	General purpose input/output terminal 6.	Controlled with serial data command from microcomputer. When not used, set it as the input terminal and open it by connecting to 0V, or set it as the output terminal and open it.
76	CONT7	In/Output	Input mode	General purpose input/output terminal 7.	
77*	V/ *P	Output	H	Monitor output terminal for automatic switch of rough servo/phase control. "H" for rough servo, and "L" for phase servo.	
78*	FSEQ	Output	L	Output terminal synchronous signal detection. "H" is output when synchronous signal detected by EFM signal matches synchronous signal internally generated.	
79	DEFECT	In/Output	Input mode	Defect terminal. After resetting, it is configured as an input terminal. It can be controlled from the outside. It also becomes a defect monitor terminal under command control	
80*	EFMO	Output	Unfixed	EFM signal output terminal.	

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

Be sure to supply the same potential to each power terminal. (VVDD,ADAVDD,VDD,LVDD,RVDD,XVDD)
Terminal witch is controlled by the power terminal (VDD5V) for a microcomputer interface :
CE (65pin), CL (66pin), DI (67pin), DO (68pin), INT (69pin), WRQ (70pin), RES (71pin), DRF (72pin), CONT6 (75pin), CONT7 (76pin)

IC701 RH-iX0332AWZZ: System Microcomputer (IX0332AW) (1/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	VDD	VDD	—	(+) POWER SUPPLY
2*	P37	-20dBATT	Output	-20dB ATTENUATOR
3	P36	S-BUSY	Output	Not used
4	P35	LCK1	Output	LED DRIVER LCK (BU2092-2)
5	P34	LCK0	Output	LED DRIVER LCK (BU2092-1)
6	P33	DP REQ	Output	DOLBY PROLOGIC REQ TERMINAL
7	P32	RES OUT	Output	CD DSP RESET&MPEG µCOM RESET
8	P31	DRF	Input	CD RF LEVEL DETECTION
9	P30	WRQ	Input	CD DSP WRITE REQUEST
10	RESET	RESET	Input	µCOM RESET
11	X2	X2	Output	MAIN CLOCK
12	X1	X1	Input	MAIN CLOCK
13	Vpp/IC	Vpp/IC	—	GND
14*	XT2	XT2	—	OPEN
15	P04	CD INT	Input	CD DSP INTERRUPT
16	VDD	VDD	—	(+) POWER SUPPLY
17	P27	CD CLK/MCLK	Output	CD DSP CLOCK/MPEG µCOM CLOCK
18	P26	CD DI/MDI	Outout	CD DSP COMMAND/MPEG µCOM COMMAND
19	P25	CD DO/MDO	Input	CD DSP CODE Q OUT/MPEG µCOM DATA INPUT
20	P24	CD CE	Output	CD DSP CE OUTPUT
21	P23	CE	Output	CE OUTPUT
22	P22	CLK	Output	CLOCK OUTPUT
23	P21	DI	Output	DATA OUTPUT
24	P20	DO	Input	DATA INPUT
25	AVss	AVSS	—	ANALOG GROUND
26	ANI7	TUN SMIM-BUSY	Input	TUNER SIGNAL METER INPUT
27	ANI6	SPEANA3	Input	SPEANA DATA INPUT L, R 16 KHz
28	ANI5	SPEANA2	Input	SPEANA DATA INPUT L, R 63Hz
29*	ANI4	SPEANA1	Input	SPEANA DATA INPUT R-CH 1KHz
30	ANI3	SPEANA0	Input	SPEANA DATA INPUT L-CH 1KHz
31-33	ANI2-ANI0	KEY2-KEY0	Input	KEY INPUT
34	AVDD	AVDD	—	ANALOG VDD
35	AVREF	AVREF	—	ANALOG REF VOLTAGE
36	INTP3	SYS STOP	Input	SYSTEM STOP INPUT
37	INTP2	JOG1	Input	KEY JOG INPUT 1
38	INTP1	JOG0	Input	KEY JOG INPUT 2
39	INTP0	REMOCON	Input	REMOCON INPUT
40	Vss	Vss	—	GROUND VOLTAGE
41	P74	SMUTE	Output	SYSTEM MUTE CONTROL
42	P73	T_SOL B	Output	TAPE2 SOLENOID CONTROL
43	P72	T_SOL A	Output	TAPE1 SOLENOID CONTROL
44	P71	T_MOTOR	Output	TAPE MOTOR CONTROL
45	P70	TIMER LED	Output	TIMER OED CONTROL
46	VDD	VDD	—	(+) POWER SUPPLY
47	P127	AC PLY_CONT	Output	AC RELAY CONTROL
48	P126	SPRLY	Output	SPEAKER OUTPUT RELAY CONTROL
49	P125	SP DET	Input	SPEAKER OUTPUT DETECTION
50	P124	T1 RUN	Input	TAPE1 RUN PULSE TNPUT
51	P123	T2 RUN	Input	TAPE2 RUN PULSE TNPUT
52	P122	CD CLAMP SW	Input	CD CHANGER CLAMP SWITCH
53	P121	PLAY SW_A	Input	PLAY SWITCH FOR T1

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC701 RH-iX0332AWZZ: System Microcomputer (IX0332AW) (2/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
54	P120	PLAY SW_B	Input	PLAY SWITCH FOR T2
55	P119	FPA	Input	TAPE2 A-SIDE FULL PROOF
56	P118	FPB	Input	TAPE2 B-SIDE FULL PROOF
57	P117	MIC SW	Input	MIC SWITCH
58	P116	KARAOKE LATCH	Output	KARAOKE LATCH
59*	P115	DIST_OUT/SW OUT	Output	DISTINATION OUTPUT/SWITCH OUTPUT
60*	P112	SPN	Input	TUNER SPAN CHANGE
	FIP39	P25	Output	FL DISPLAY SEGMENT DRIVER
61	P111	MOV VOL COM OPN SW	Input	MOVING VOLUME CONTROL OPEN SWITCH
	FIP38	P24	Output	FL DISPLAY SEGMENT DRIVER
62*	P110	MOV VOL COM CLS SW	Input	MOVING VOLUME CONTROL CLOSE SWITCH
	FIP37	P23	Output	FL DISPLAY SEGMENT DRIVER
63-66	FIP36-FIP33	P22-P19	Output	FL DISPLAY SEGMENT DRIVER
67	P103	DIST3	Input	DISTINATION INPUT
	FIP32	P18	Output	FL DISPLAY SEGMENT DRIVER
68	P102	DIST2	Input	DISTINATION INPUT
	FIP31	P17	Output	FL DISPLAY SEGMENT DRIVER
69	P101	DIST1	Input	DISTINATION INPUT
	FIP30	P16	Output	FL DISPLAY SEGMENT DRIVER
70	P100	DIST0	Input	DISTINATION INPUT
	FIP29	P15	Output	FL DISPLAY SEGMENT DRIVER
71-78	FIP28-FIP21	P14-P7	Output	FL DISPLAY SEGMENT DRIVER
79	VLOAD	VLOAD	—	FL DRIVER (-) POWER SUPP. -30V
80-85	FIP20-FIP15	P9-P1	Output	FL DISPLAY SEGMENT DRIVER
86-100	FIP14-FIP0	G15-G1	Output	FL DISPLAY SEGMENT DRIVER

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC3 VHiM63001FP-1: Focus/Tracking/Spin/Slide Driver (M63001FP)

Pin No.	Terminal Name	Function
1	IN2-	CH2 inverted input.
2	IN1A-	CH1 inverted input.
3	IN1B-	CH1 output offset control.
4	OUT1-	CH1 inverted output.
5	OUT1+	CH1 non-inverted output.
6	OUT2-	CH2 inverted output.
7	OUT2+	CH2 non-inverted output.
8-14	GND	GND
15	OUT3+	CH3 non-inverted output.
16	OUT3-	CH3 inverted output.
17	IN3-	CH3 inverted input.
18	VCC1	Power supply 1 (CH1, CH2, CH3)
19	STANDBY	STANDBY signal input.
20	VRFE	CH1-CH4 Reference voltage input.
21	MUTE	Mute signal input (CH6).
22	IN5-	CH5 inverted input.
23	IN5+	CH5 non-inverted input.
24	VCC2	Power supply 2 (CH4).
25	IN4-	CH4 inverted input.
26	OUT4-	CH4 inverted output.
27	OUT4+	CH4 non-inverted output.
28	VCC3	Power supply 3 (CH5).
29-35	GND	GND
36	OUT5+	CH5 non-inverted output.
37	OUT5-	CH5 inverted output.
38	OUT6+	CH6 non-inverted output.
39	OUT6-	CH6 inverted output.
40	VCC4	Power supply 4 (CH6).
41	IN6-	CH6 inverted input.
42	IN6+	CH6 non-inverted input.

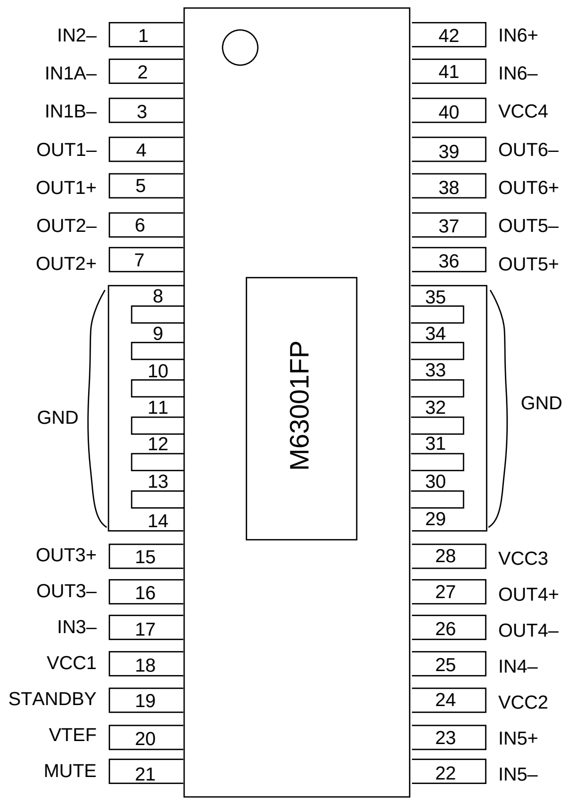
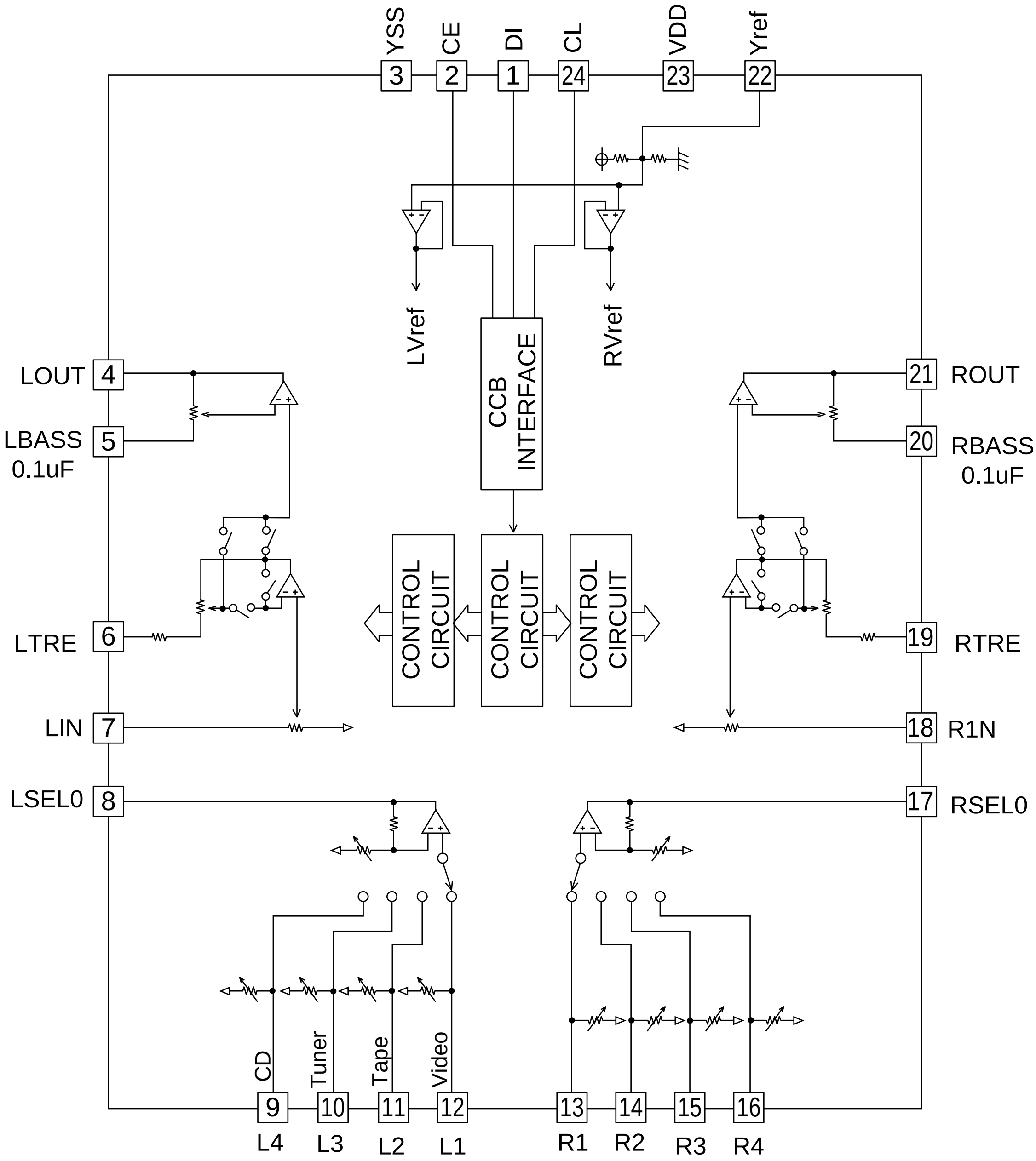


Figure 50 BLOCK DIAGRAM OF IC

IC401 VHiLC75341M-1: Audio Processor (LC75341M)



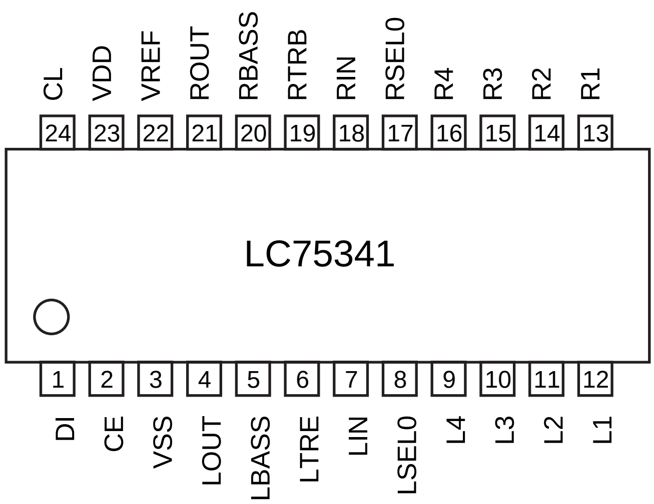
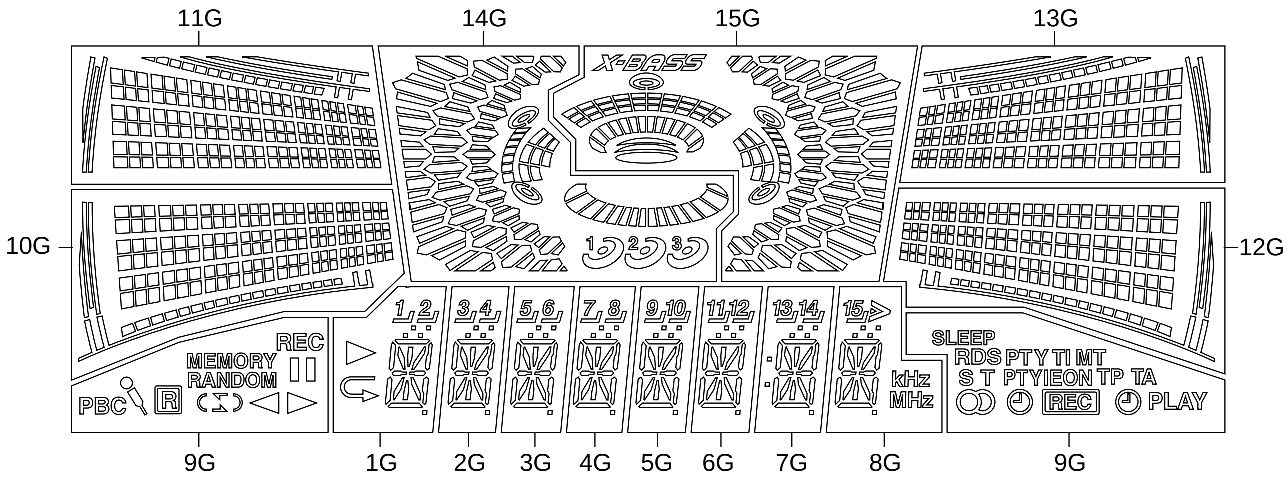
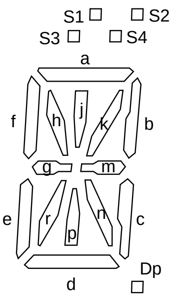


Figure 51 BLOCK DIAGRAM OF IC

FL701 VVKBJ744GNK-1: FL Display





(1G~8G)

PIN CONNECTION

PIN NO.	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	15G	14G	13G	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F1	F1	F1

PIN NO.	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21
CONNECTION	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NX	NX	NX	NX	NX	NX	NX	NX

PIN NO.	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41
CONNECTION	F2	F2	F2	NP	NP	P25	P24	P23	P22	P21	P20	P19	P18	P17	P16	P15	P14	P13

Figure 52 FL DISPLAY

SHARP PARTS GUIDE

MODEL CD-PC3500

CD-PC3500 Mini Component System consisting of CD-PC3500 (main unit), CP-C3500 (front speakers), GBOXS0036AWM1 (center speaker) and GBOXS0037AWM1 (rear speakers).

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. No.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,
Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

VCC .... Ceramic type
VCK .... Ceramic type
VCT .... Semiconductor type
VC • • MF .... Cylindrical type (without lead wire)
VC • • MN .... Cylindrical type (without lead wire)
VC • • TV .... Square type (without lead wire)
VC • • TQ .... Square type (without lead wire)
VC • • CY .... Square type (without lead wire)
VC • • CZ .... Square type (without lead wire)
VC • • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD .... Carbon-film type
VRS .... Carbon-film type
VRN .... Metal-film type
VR • • MF .... Cylindrical type (without lead wire)
VR • • MN .... Cylindrical type (without lead wire)
VR • • TV .... Square type (without lead wire)
VR • • TQ .... Square type (without lead wire)
VR • • CY .... Square type (without lead wire)
VR • • CZ .... Square type (without lead wire)
VR • • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

CD-PC3500

INTEGRATED CIRCUITS

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
IC1	VHILA9235M/-1	J	AQ	Servo Amp.,LA9235M
IC2	VHILC78641E-1	J	AV	Servo/Signal Control,LC78641E
IC3	VHIM63001FP-1	J	AX	Focus/Tracking/Spin/Sled Driver, M6300FP
IC101	VHIAN7345K/-1	J	AM	Playback and Record/ Playback Amp.,AN7345K
IC201	VHIBU4066BH-1	J		Switching,BU4066BH
IC301	VHITA7358AP-1	J	AG	FM Front End,TA7358AP
IC302	VHILC72131/-1	J	AP	PLL (Tuner),LC72131
IC303	VHILA1832//-1	J	AR	FM IF Det./FM Mpx./ AM IF, LA1832
IC401	VHILC75341M-1	J		Audio Processor,LC75341M
IC501	VHIM62464AFP1	J	BB	Dolby Prologic Decorder, M62464AFP
IC502	VHIKIA4558P-1	J	AC	Ope Amp.,KIA4558P
IC601~603	VHIKIA4558P-1	J	AC	Ope Amp.,KIA4558P
IC701	RH-IX0332AWZZ	J	AX	System Microcomputer, IX0332AW
IC702,703	VHIBU2092F/-1	J	AM	Input/Output Expander, BU2092F
IC704	VHIKIA7042AP1	J	AC	Reset,KIA7042AP
IC801	VHIKIA7805P-1	J	AF	Voltage Regulator,KIA7805P
IC802	VHIKIA7810AP1	J	AF	Voltage Regulator,KIA7810AP
IC804	VHIAN78L05/-1	J	AE	Constant Voltage Regulator, AN78L05
IC901	VHISTK40271-1	J	AZ	Power Amp.,STK40271
IC902	VHISTK40203-1	J	AX	Power Amp.,STK40203

TRANSISTORS

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
Q1	VS2SC3203Y/-1	J		Silicon,NPN,2SC3203 Y
Q2	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q3	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q103~106	VS2SC2389SE-1	J	AD	Silicon,NPN,2SC2389 SE
Q107,108	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q109	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q110,111	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q121,122	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q124	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q126	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q128	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q302	VSKTC3194Y/-1	J	AD	Silicon,NPN,KTC3194 Y
Q360	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q401,402	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q403,404	VSKTC107M//-1	J		Silicon,NPN,KTC107 M
Q501~504	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q701~703	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q704,705	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q706	VSKTA1273Y/-1	J	AE	Silicon,PNP,KTA1273 Y
Q707,708	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q709	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q710~712	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q803	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q804	VSKTA1274Y/-1	J	AE	Silicon,PNP,KTA1274 Y
Q823	VSKTD2026Y/-1	J		Silicon,NPN,KTD2026 Y
Q901~909	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q910	VSKTC3203Y/-1	J	AB	Silicon,NPN,KTC3203 Y
Q911	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR

DIODES

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
D21,22	VHD1SS133//-1	J	AA	Silicon,1SS133
D101,102	VHD1SS133//-1	J	AA	Silicon,1SS133
D201,202	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D301~305	VHD1SS133//-1	J	AA	Silicon,1SS133
D501,502	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D601~606	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D701	VHDDS1SS133-1	J	AA	Silicon,DS1SS133
D703	VHDDS1SS133-1	J	AA	Silicon,DS1SS133
D708~714	VHDDS1SS133-1	J	AA	Silicon,DS1SS133
D717,718	VHDDS1SS133-1	J	AA	Silicon,DS1SS133
D801	VHDTS6B04GM-1	J	AP	Silicon,TS6B04GM-1
D802	VHDD3SBA60F-1	J	AA	Silicon,DS3SBA60F
D803~809	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D810~813	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D814~818	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D901~909	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
LED700	VHP4204SRT7-1	J	AD	LED,Red,4204SRT7
LED701~714	VHP4204UYT7-1	J	AD	LED,Yellow,4204UYT7
LED718	VHP4204UYT7-1	J	AD	LED,Yellow,4204UYT7
VD301	VHCSVC348S/-1	J	AK	Variable Capacitance,SVC348S
VD302,303	VHCKDV147B/-1	J	AH	Variable Capacitance, KDV147B
ZD61	VHEDZ3R9BSB-1	J	AC	Zener,3.9V,DZ3.9BSB
ZD351	VHEMTZJ5R1B-1	J	AC	Zener,5.1V,MTZJ5.1B
ZD502	VHEDZ5R1BSB-1	J	AC	Zener,5.1V,DZ5.1BSB
ZD601	VHEDZ6R2BSC-1	J	AB	Zener,DZ6R2BSC
ZD801	VHEDZ6R2BSA-1	J	AB	Zener,6.2V,DZ6.2BSA
ZD802	VHEDZ300BSB-1	J	AB	Zener,30V,DZ300BSB
ZD803	VHEDZ130BSB-1	J	AB	Zener,DZ130BSB

FILTERS

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
BF301	RFILF0008AWZZ	J		AM IF
CF303	RFILF0124AFZZ	J	AD	FM IF,10.7 MHz
CF351	RFILF0003AWZZ	J	AK	FM IF
CF352	RFILA0009AWZZ	J	AE	AM IF

TRANSFORMERS

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
⚠ PT801	RTRNP0297AWZZ	J	BH	Power
⚠ PT802	RTRNP0312AWZZ	J	AP	Power
T301	RCILB0065AWZZ	J	AC	FM OSC.
T302	RCILI0017AWZZ	J	AB	FM IF
T303	RCILA0052AWZZ	J	AE	AM Tracking
T306	RCILB0058AWZZ	J	AC	AM OSC.
T351	RCILI0019AWZZ	J	AD	AM IF

COILS

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
L61	VP-XHR82K0000	J	AC	0.82 µH
L62	VP-XH2R2K0000	J	AB	2.2 µH,Choke
L104	VP-MK331K0000	J	AB	330 µH,Choke
L312	RCILR0056AWZZ	J	AA	FM RF
L351,352	VP-DH101K0000	J	AB	100 µH,Choke
L601	VP-DH101K0000	J	AB	100 µH,Choke
L702	VP-DH101K0000	J	AB	100 µH,Choke
L901~904	RCILZ0137AFZZ	J	AA	0.29 µH

VIBRATORS

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
X351	92LCRSTL1425A	J	AF	Crystal,456 kHz
X352	RCRSP0002AWZZ	J	AH	Crystal,4.5 MHz
XL1	RCRSP0005AWZZ	J	AF	Crystal,16.934 MHz
XL701	RCRSP0003AWZZ	J	AH	Crystal

CAPACITORS

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C6	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C7	VCEAZA1VW106M	J		10 µF,35V,Electrolytic
C8	VCFYHA1HA104J	J	AB	0.1 µF,50V,Thin Film
C11	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C12	VCFYHA1HA104J	J	AB	0.1 µF,50V,Thin Film
C13	VCTYPA1CX103K	J	AA	0.01 µF,16V
C14	VCFYDA1HA334J	J	AC	0.33 µF,50V,Polyester
C17	VCTYBT1EX272K	J		2700 pF,25V
C18	VCCSMN1HL1R0J	J	AA	1 pF,50V
C19	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C20	RC-QZA104AFYJ	J	AC	0.1 µF,50V,Mylar
C21	VCFYHA1HA104J	J	AB	0.1 µF,50V,Thin Film
C22	VCKYBT1HB101J	J	AA	100 pF,50V
C23	VCFYHA1HA473J	J	AB	0.047 µF,50V,Thin Film
C24	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C25	VCFYHA1HA104J	J	AB	0.1 µF,50V,Thin Film
C26	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C27	VCFYHA1HA104J	J	AB	0.1 µF,50V,Thin Film
C28	VCEAZA1AW476M	J	AB	47 µF,10V,Electrolytic
C29,30	VCFYHA1HA104J	J	AB	0.1 µF,50V,Thin Film
C31	VCEAZA0JW107M	J	AC	100 µF,10V,Electrolytic
C34	VCTYBT1EF223Z	J	AA	0.022 µF,25V
C38,39	VCTYBT1CF106Z	J		10 µF,16V
C40	VCCCMN1HH102J	J		1000 pF (CH),50V
C41	RC-EZ0004AWZZ	J	AD	100 µF,10V,Electrolytic
C42	VCCSPA1HL680J	J	AA	68 pF,50V
C43	VCCCMN1HH102J	J		1000 pF (CH),50V
C44	VCFYHA1HA104J	J	AB	0.1 µF,50V,Thin Film
C45	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C46	VCTYBT1EF223Z	J	AA	0.022 µF,25V
C47	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C49,50	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C51	VCEAZA0JW476M	J		47 µF,6.3V,Electrolytic
C52	VCTYPA1CX103K	J	AA	0.01 µF,16V
C53	VCKYBT1HB102J	J		1000 pF,50V
C54	VCEAZA1AW476M	J	AB	47 µF,10V,Electrolytic
C55	VCTYPA1CX103K	J	AA	0.01 µF,16V
C56	VCTYBT1AF107Z	J		100 µF,10V
C64	VCEAZA1AW476M	J	AB	47 µF,10V,Electrolytic
C71	VCKYBT1HB101J	J	AA	100 pF,50V
C72	VCTYBT1CY103M	J	AA	0.01 µF,16V
C73~78	VCKYBT1HB101J	J	AA	100 pF,50V
C80	VCFYHA1HA104J	J	AB	0.1 µF,50V,Thin Film
C81~83	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C98	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C99	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C101,102	VCKYMN1HB102K	J	AA	0.001 µF,50V
C105,106	VCKYMN1HB181K	J	AA	180 pF,50V
C107,108	VCKYMN1HB102K	J	AA	0.001 µF,50V
C109	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C111~114	VCKYMN1HB331K	J	AA	330 pF,50V
C115	RC-GZA335AF1H	J	AB	3.3 µF,50V,Electrolytic
C116	RC-GZA476AF1E	J	AB	47 µF,25V,Electrolytic
C117,118	VCTYPA1EX333K	J	AA	0.033 µF,25V
C119,120	VCKYMN1HB561K	J	AA	560 pF,50V
C121	RC-GZA335AF1H	J	AB	3.3 µF,50V,Electrolytic
C122	RC-GZA476AF1E	J	AB	47 µF,25V,Electrolytic
C123	VCTYMN1CX223K	J		0.022 µF,16V
C124	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C127	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C128	RC-GZA335AF1H	J	AB	3.3 µF,50V,Electrolytic
C131,132	VCKYMN1HB102K	J	AA	0.001 µF,50V
C133,134	RC-GZA226AF1E	J	AB	22 µF,25V,Electrolytic
C135	VCTYMN1CX332K	J	AA	0.0033 µF,16V
C136	VCTYPA1CX683K	J	AA	0.068 µF,16V
C139,140	VCTYMN1CX332K	J	AA	0.0033 µF,16V
C141,142	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C145	RC-GZA226AF1E	J	AB	22 µF,25V,Electrolytic
C146	RC-GZA227AF1A	J	AB	220 µF,10V,Electrolytic
C150	VCQPKA2AA392J	J	AB	0.0039 µF,100V,Polypropylene
C151	RC-QZA273AFYJ	J	AB	0.027 µF,50V,Mylar
C152,153	RC-GZA476AF1E	J	AB	47 µF,25V,Electrolytic
C154	VCKZPA1HF473Z	J	AA	0.047 µF,50V,Mylar
C201~204	VCKYMN1HB391K	J	AA	390 pF,50V
C205	VCKYMN1EF223Z	J	AA	0.022 µF,25V
C206~210	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C211	VCKYMN1HB391K	J	AA	390 pF,50V
C212	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C301	VCKYMN1HB102K	J	AA	0.001 µF,50V
C303	VCCCMN1HH100J	J	AA	10 pF (CH),50V
C304	VCTYMN1CY103K	J	AA	0.01 µF,16V
C305	VCCCMN1HH4R7C	J	AA	4.7 pF (CH),50V
C306	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C307	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C308	VCCUMN1HJ4R7C	J	AA	4.7 pF (UJ),50V
C309	VCKYMN1HB102K	J	AA	0.001 µF,50V
C310	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C311	VCCSMN1HL180J	J	AA	18 pF,50V
C312	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C313	VCCCMN1HH220J	J	AA	22 pF (CH),50V
C314,315	VCTYMN1CX472K	J	AA	0.0047 µF,16V
C316	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C317	VCKYMN1HB102K	J	AA	0.001 µF,50V
C318	VCKYMN1HB101K	J	AA	100 pF,50V
C323	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C324	VCCUMN1HJ3R9K	J	AA	3.9 pF (UJ),50V
C330	VCCUMN1HJ270J	J	AA	27 pF (UJ),50V
C331	VCKYPA1HF473J	J	AA	0.047 µF,50V
C332	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C334	VCCUMN1HJ270J	J	AA	27 pF (UJ),50V
C335	VCCCMN1HH561J	J		560 pF (CH),50V
C338	VCKYMN1HB102K	J	AA	0.001 µF,50V
C342	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C350,351	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C352	RC-GZA476AF1C	J	AB	47 µF,16V,Electrolytic
C353,354	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C355	VCCSMN1HL220J	J	AA	22 pF,50V
C356	VCKYMN1HB102K	J	AA	0.001 µF,50V
C357	RC-GZA225AF1H	J	AB	2.2 µF,50V,Electrolytic
C358	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C361	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C362	RC-GZA335AF1H	J	AB	3.3 µF,50V,Electrolytic
C363	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C364	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C365	VCTYPA1CX223K	J	AA	0.022 µF,16V
C366	VCKYMN1HB102K	J	AA	0.001 µF,50V
C367,368	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C369	VCCSBT1HL270J	J	AA	27 pF,50V
C370~372	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C373,374	VCTYPA1CX153K	J	AA	0.015 µF,16V
C375	VCKYMN1HB101K	J	AA	100 pF,50V
C380	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C381	VCCCMN1HH120J	J	AA	12 pF (CH),50V
C382	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C384	VCKYMN1HB102K	J	AA	0.001 µF,50V
C385	VCTYMN1CY103K	J	AA	0.01 µF,16V
C386	VCKYMN1HB331K	J	AA	330 pF,50V
C387	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C391	RC-GZA476AF1C	J	AB	47 µF,16V,Electrolytic
C392	VCKYMN1HB102K	J	AA	0.001 µF,50V
C393	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C394	RC-GZA476AF1C	J	AB	47 µF,16V,Electrolytic
C395	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C396	RC-GZA107AF1A	J	AB	100 µF,10V,Electrolytic
C397	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C398	RC-GZA107AF1A	J	AB	100 µF,10V,Electrolytic
C399	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C401	VCEAZA1EW225M	J		2.2 µF,25V,Electrolytic
C402,403	VCQYKA1HM104J	J	AC	0.1 µF,50V,Mylar
C404	VCTYPA1CX272K	J	AA	0.0027 µF,16V
C405~408	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C410,411	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C413,414	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C415	VCTYPA1CX272K	J	AA	0.0027 µF,16V
C416,417	VCQYKA1HM104J	J	AC	0.1 µF,50V,Mylar
C418	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C419	VCQYKA1HM223K	J	AB	0.022 µF,50V,Mylar
C420	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C421	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C422	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C423	VCEAZA1EW225M	J		2.2 µF,25V,Electrolytic
C424~427	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C501~507	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C508	VCQYKA1HM104J	J	AC	0.1 µF,50V,Mylar
C509	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C510	VCQYKA1HM104J	J	AC	0.1 µF,50V,Mylar
C511	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C512	VCTYPA1CX472K	J	AA	0.0047 µF,16V
C513	VCTYPA1CX102K	J	AA	0.001 µF,16V
C514	VCQYKA1HM104J	J	AC	0.1 µF,50V,Mylar
C515,516	VCFYDA1HA224J	J	AB	0.22 µF,50V,Polyester
C517	VCQYKA1HM104J	J	AC	0.1 µF,50V,Mylar
C518	VCQYKA1HM472J	J	AA	0.0047 µF,50V,Mylar
C519	VCTYPA1CX102K	J	AA	0.001 µF,16V
C520	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C521	VCQYKA1HM562J	J	AA	0.0056 µF,50V,Mylar
C522	VCQYKA1HM473J	J	AB	0.047 µF,50V,Mylar
C523	VCFYDA1HA684J	J	AF	0.68 µF,50V,Thin Film
C524,525	VCFYDA1HA224J	J	AB	0.22 µF,50V,Polyester
C526,527	VCEAZA1HW474M	J	AB	0.47 µF,50V,Electrolytic
C528,529	VCFYDA1HA224J	J	AB	0.22 µF,50V,Polyester
C530	VCQYKA1HM104J	J	AC	0.1 µF,50V,Mylar
C531	VCQYKA1HM473J	J	AB	0.047 µF,50V,Mylar
C532~534	VCQYKA1HM104J	J	AC	0.1 µF,50V,Mylar
C535,536	VCQYKA1HM223J	J	AB	0.022 µF,50V,Mylar
C537	VCQYKA1HM104J	J	AC	0.1 µF,50V,Mylar
C538	VCKYMN1HB681K	J	AA	680 pF,50V
C539,540	VCQYKA1HM103J	J	AB	0.01 µF,50V,Mylar
C541	VCKYMN1HB681K	J	AA	680 pF,50V
C542,543	VCQYKA1HM103J	J	AB	0.01 µF,50V,Mylar
C544	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C545	VCQYKA1HM682J	J	AB	0.0068 µF,50V,Mylar
C546	VCEAZA1HW475M	J	AB	4.7 µF,50V,Electrolytic
C547	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C548	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C549,550	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C551~554	VCKYMN1HB102K	J	AA	0.001 µF,50V
C555	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C556	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C557	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C558	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C559,560	VCKYMN1HB101K	J	AA	100 pF,50V
C561	VCFYDA1HA154J	J	AB	0.15 µF,50V,Polyester

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C562	VCQYKA1HM823J	J	AC	0.082 µF,50V,Mylar
C563	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C564	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C565	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C566	VCFYDA1HA154J	J	AB	0.15 µF,50V,Polyester
C567	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C568,569	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C570	VCKYMN1HB101K	J	AA	100 pF,50V
C601,602	VCKYMN1HB271K	J	AA	270 pF,50V
C603,604	VCTYMN1CX682K	J	AA	0.0068 µF,16V
C605,606	VCEAZA1HW224M	J	AB	0.22 µF,50V,Electrolytic
C607~612	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C613~616	VCTYMN1CX272Z	J		0.0027 pF,16V
C617,618	VCEAZA1HW224M	J	AB	0.22 µF,50V,Electrolytic
C619	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C625	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C698,699	VCTYMN1HF223Z	J		0.022 µF,50V
C701,702	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C706	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C707,708	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C709,710	VCKYMN1HB102K	J	AA	0.001 µF,50V
C711	VCKYMF1HB103K	J		0.01 µF,50V
C712	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
C713	RC-EZB335AF1H	J	AB	3.3 µF,50V,Electrolytic
C714	VCKYMF1HD223K	J		0.022 µF,50V
C716	VCCRMF1HH223J	J		0.022 µF (RH),50V
C717	RC-GZW227AF0J	J		220 µF,6.3V,Electrolytic
C718	VCCSMN1HL180J	J	AA	18 pF,50V
C719	VCCSMN1HL150J	J	AA	15 pF,50V
C720	RC-EZA105AF1H	J	AB	1 µF,50V,Electrolytic
C721	VCCCPA1HH223J	J		0.022 µF (CH),50V
C722	RC-GZA227AF1A	J	AB	220 µF,10V,Electrolytic
C723	RC-EZD476AF1C	J	AB	47 µF,16V,Electrolytic
C724	VCTYMN1EF223Z	J		0.022 µF,25V
C725	RC-EZD476AF1C	J	AB	47 µF,16V,Electrolytic
C726	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C801	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C802	VCEAZA1EW227M	J	AC	220 µF,25V,Electrolytic
C803,804	VCEAZA1HW228M	J		2200 µF,50V,Electrolytic
C805	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C806	VCQYKA1HM473M	J	AB	0.047 µF,50V,Mylar
C807	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C808	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C809,810	VCQYKA1HM104J	J	AC	0.1 µF,50V,Mylar
C811	VCCSPA1HW223J	J		0.022 µF,50V
C812	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C813	VCQYKA1HM104J	J	AC	0.1 µF,50V,Mylar
C814	VCEAZA1EW338M	J		3300 µF,25V,Electrolytic
C815,816	VCEAZA1HW228M	J		2200 µF,50V,Electrolytic
C817~822	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C823	VCEAZA1BW107M	J		100 µF,12.5V,Electrolytic
C824,825	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C826~828	VCEAZA1HW227M	J	AC	220 µF,50V,Electrolytic
C829	VCEAZA0JW108M	J	AC	1000 µF,6.3V,Electrolytic
C830	VCEAZA1BW477M	J		470 µF,12.5V,Electrolytic
C831	RC-KZ001LAWZZ	J	AB	0.0047 µF,250VAC,Ceramic
C832	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C833	VCQYKA1HM104J	J	AC	0.1 µF,50V,Mylar
C834	VCEAZA1HW227M	J	AC	220 µF,50V,Electrolytic
C901	VCCSMF1HL470J	J	AA	47 pF,50V
C902	VCCSMF1HL150J	J	AA	15 pF,50V
C903	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C904	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C905	VCCSMF1HL223J	J		0.022 µF,50V
C906,907	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C908	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C909	VCCSMF1HL223J	J		0.022 µF,50V
C910	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C911	VCCSMF1HL470J	J	AA	47 pF,50V
C912	VCCSMF1HL150J	J	AA	15 pF,50V
C913	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C914	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C915	VCCSPA1HL221J	J	AA	220 pF,50V
C916	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C917	VCCSPA1HL221J	J	AA	220 pF,50V
C918~921	VCCSMF1HL104J	J		0.1 µF,50V
C930	VCCSMF1HL470J	J	AA	47 pF,50V
C931	VCCSMF1HL150J	J	AA	15 pF,50V
C932,933	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C934	VCCSMF1HL221J	J	AA	220 pF,50V
C935,936	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C937	VCCSMF1HL221J	J	AA	220 pF,50V
C938	VCCSMF1HL223J	J		0.022 µF,50V
C939,940	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C941	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C942	VCCSMF1HL223J	J		0.022 µF,50V
C943	VCCSMF1HL470J	J	AA	47 pF,50V
C944	VCCSMF1HL150J	J	AA	15 pF,50V
C945,946	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C947~950	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C960	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C961	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C986	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C987	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic

RESISTORS

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R3	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R4	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R5	VRD-ST2CD393J	J	AA	39 kohms,1/6W
R6	VRD-ST2CD273J	J	AA	27 kohms,1/6W
R7	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
R8	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R10	VRD-ST2CD273J	J	AA	27 kohms,1/6W
R11	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R12,13	VRD-ST2CD681J	J	AA	680 ohms,1/6W
R14	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
R15	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R16,17	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R19	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R20	VRD-MN2BD221J	J	AA	220 ohms,1/8W
R21,22	VRD-ST2CD391J	J	AA	390 ohms,1/6W
R25	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R35	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R38	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
R39	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R40	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
R42	VRD-ST2CD124J	J	AA	120 kohms,1/6W
R44	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R45	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
R46	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R47	VRD-ST2EE3R3J	J	AA	3.3 ohms,1/4W
R48	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
R50	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R51~54	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R55,56	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R58	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R67,68	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R71~78	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R79	VRD-ST2CD155J	J	AA	1.5 Mohms,1/6W
R80	VRD-ST2CD105J	J	AA	1 Mohm,1/6W
R81,82	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R83,84	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R87	VRD-ST2CD121J	J	AA	120 ohms,1/6W
R94	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R101,102	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R103,104	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R105,106	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R107,108	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R109,110	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R111	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R112	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R113,114	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R115	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R117,118	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R119,120	VRD-ST2CD560J	J	AA	56 ohms,1/6W
R121,122	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R123,124	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R125	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R126	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R131	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R132	VRD-ST2CD333J	J	AA	33 kohms,1/6W
R134	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R135,136	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R137,138	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R139,140	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R141,142	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R145,146	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R153,154	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R158	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R160	VRD-RT2HD820J	J	AA	82 ohms,1/2W
R162	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R164	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R166	VRD-MN2BD223J	J	AA	22 kohms,1/8W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R167	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R168	VRD-ST2CD4R7J	J	AA	4.7 ohms,1/6W
R174	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R181,182	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R201~204	VRD-MN2BD273J	J	AA	27 kohms,1/8W
R205~208	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
R209~219	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R220,221	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R225	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R302	VRD-MN2BD100J	J	AA	10 ohm,1/8W
R309	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R311	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R313	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R314	VRD-ST2CD220J	J	AA	22 ohms,1/6W
R316	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R322	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R323	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R325	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R327	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R336	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R350	VRD-ST2CD272J	J	AA	2.7 kohms,1/6W
R351	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R352	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R353	VRD-MN2BD271J	J	AA	270 ohms,1/8W
R355	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R356	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R357	VRD-ST2CD474J	J	AA	470 kohms,1/6W
R358	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R359	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
R360	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R361	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R362	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R363,364	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R365	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R370	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R372~374	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R375	VRD-MN2BD680J	J	AA	68 ohms,1/8W
R376	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R377	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R378	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R379	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R380	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R381	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R382	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R383~385	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R386	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R387	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R388	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R391,392	VRD-ST2EE271J	J	AA	270 ohms,1/4W
R393	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R395	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R401	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R402	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R403	VRD-MN2BD221J	J	AA	220 ohms,1/8W
R404,405	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R406	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R407	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R408	VRD-MN2BD221J	J	AA	220 ohms,1/8W
R409~414	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R417	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R418	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
R419,420	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R501	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R502,503	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R504,505	VRD-ST2CD154J	J	AA	150 kohms,1/6W
R506	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R507~509	VRD-ST2CD154J	J	AA	150 kohms,1/6W
R510	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R511	VRD-ST2CD154J	J	AA	150 kohms,1/6W
R512	VRD-ST2CD334J	J	AA	330 kohms,1/6W
R513	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R516	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R517,518	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R519	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R520,521	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R522	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R523	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R524	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R525	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R526	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R527	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R528	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R529	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R530	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R531	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R532	VRD-MN2BD273J	J	AA	27 kohms,1/8W
R533	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R534	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R535	VRD-MN2BD273J	J	AA	27 kohms,1/8W
R536	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R537	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R538	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R539	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R540	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R541	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R542	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R543,544	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R545,546	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R601	VRD-ST2CD333J	J	AA	33 kohms,1/6W
R602	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R603	VRD-ST2CD474J	J	AA	470 kohms,1/6W
R604	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R605	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R606	VRD-ST2CD225J	J	AA	2.2 Mohms,1/6W
R607	VRD-ST2CD394J	J	AA	390 kohms,1/6W
R608	VRD-ST2CD225J	J	AA	2.2 Mohms,1/6W
R609,610	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R611,612	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R613,614	VRD-ST2EE331J	J	AA	330 ohms,1/4W
R615,616	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R617,618	VRD-MN2BD154J	J	AA	150 kohms,1/8W
R619,620	VRD-MN2BD474J	J	AA	470 kohms,1/8W
R621	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R622	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R623	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R624	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R625	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R626	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R627,628	VRD-MN2BD394J	J	AA	390 kohms,1/8W
R629,630	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R701~703	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R704~706	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R707	VRD-MN2BD330J	J	AA	33 ohms,1/8W
R711	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R714~719	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R720~722	VRD-MF2EE103J	J	AA	10 kohm,1/4W
R725	VRD-MF2EE103J	J	AA	10 kohm,1/4W
R726	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R727,728	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R729,730	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R731	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
R732~734	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R736~738	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R739	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R740~742	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R743,744	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R745	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R746,747	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R748~750	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R751~755	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R756	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R757~772	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R774	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R776	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R779	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R781	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R782,783	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R784	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R785	VRD-MN2BD474J	J	AA	470 kohms,1/8W
R786	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R787	VRD-MN2BD474J	J	AA	470 kohms,1/8W
R788	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R790	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R793	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R794	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R796	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R801	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R802,803	VRD-ST2EE223J	J	AA	22 kohms,1/4W
R804	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R805	VRN-RT2HD3R3J	J		3.3 ohms,1/2W,Metal Film
R806	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R807	VRD-ST2CD330J	J	AA	33 ohms,1/6W
R808	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R809,810	VRD-ST2EE223J	J	AA	22 kohms,1/4W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R811	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R812	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R813	VRD-ST2CD100J	J	AA	10 ohm,1/6W
R814	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R815	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R816	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R817	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R821	VRD-RT2HD3R3J	J	AA	3.3 ohms,1/2W
R901	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R902	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R903	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R904	VRD-ST2CD102J	J	AA	1 kohm,1/6W
⚠ R905	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
R906	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R907	VRD-ST2EE0R1J	J		0.1 ohms,1/4W
R908	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R909	VRD-ST2CD103J	J	AA	10 kohm,1/6W
⚠ R910	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
R911	VRD-ST2EE0R1J	J		0.1 ohms,1/4W
R912	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R913	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R914	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R915	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R916,917	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R918~920	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R921,922	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R923,924	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
R930	VRD-ST2CD223J	J	AA	22 kohms,1/6W
⚠ R931	VRG-ST2EC0R1J	J		0.1 ohms,1/4W,Fusible
R932	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R933	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R934	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R935	VRN-VV3AAR10J	J		0.1 ohm,1W
R936	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R937	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R938	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R939,940	VRD-ST2CD683J	J	AA	68 kohms,1/6W
⚠ R941	VRG-ST2EC0R1J	J		0.1 ohms,1/4W,Fusible
R942	VRN-VV3AAR10J	J		0.1 ohm,1W
R943	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R944	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R945	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R946	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R947,948	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R949~951	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R952,953	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R954,955	VRD-RT2HD331J	J	AA	330 ohms,1/2W
R956,957	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R958,959	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R960,961	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
R971	VRD-RT2HD4R7J	J	AA	4.7 ohms,1/2W
R972	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R973	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R974	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R987~990	VRN-VV3DAR22J	J	AC	0.22 ohms,2W
R991	VRD-ST2CD473J	J	AA	47 kohms,1/6W
RD1	VRD-ST2CD821J	J	AA	820 ohms,1/6W
RD2	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
RD3	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
RD4	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
RD5	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
RD6	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
RD7	VRD-ST2CD123J	J	AA	12 kohms,1/6W
RD8	VRD-ST2CD223J	J	AA	22 kohms,1/6W
RD9	VRD-MN2BD103J	J		10 kohms,1/8W
RD10	VRD-ST2CD683J	J	AA	68 kohms,1/6W
RD11	VRD-MN2BD333J	J		33 kohms,1/8W
RD12	VRD-MN2BD104K	J		100 kohm,1/8W
RD13	VRD-ST2CD821J	J	AA	820 ohms,1/6W
RD14	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
RD15	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
RD16	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
RD17	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
RD18	VRD-ST2CD821J	J	AA	820 ohms,1/6W
RD19	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
RD20	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
RD21	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
RD22	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
RD23	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
RD24	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
RD25	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
RD26	VRD-ST2CD123J	J	AA	12 kohms,1/6W
RD27	VRD-ST2CD223J	J	AA	22 kohms,1/6W
RD28	VRD-ST2CD333J	J	AA	33 kohms,1/6W
RD29	VRD-ST2CD104J	J	AA	100 kohm,1/6W
RM710~712	VRD-ST2CD104J	J	AA	100 kohm,1/6W
RM713~715	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RS701~704	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RS708~710	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RS714~718	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RS720	VRD-MN2BD221J	J	AA	220 ohms,1/8W
RS721,722	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RS723	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RS724~726	VRD-ST2CD103J	J	AA	10 kohm,1/6W

OTHER CIRCUITRY PARTS

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
BI4/CNS4	QCNWN1572AWZZ	J	AF	Connector Ass'y,6/6Pin
BI99/CNS99	QCNWN1611AWZZ	J	AG	Connector Ass'y,3/3Pin
BI101/CNS101	QCNCM705CAFZZ	J	AA	Connector Ass'y,3/3Pin
BI102/CNS102	QCNCM705GAFZZ	J	AB	Connector Ass'y,7/7Pin
BI401/CNS401	QCNWN1540AWZZ	J	AF	Connector Ass'y,5/5Pin
BI701/CNS701	QCNWN1541AWZZ	J	AH	Connector Ass'y,12/12Pin
BI702/CNS702	QCNWN1607AWZZ	J	AG	Connector Ass'y,9/9Pin
CNP1	QCNCM704GAWZZ	J	AC	Plug,7Pin
CNP2	QCNCM704HAWZZ	J	AC	Plug,8Pin
CNP3	92LCONE6P53253	J	AC	Plug,6Pin
CNP4	QCNCM705FAFZZ	J	AB	Plug,6Pin
CNP11	92LCONE5P53254	J	AB	Plug,5Pin
CNP12	92LCONEAP53254	J	AD	Plug,10Pin
CNP301	92LCONE3P5268	J	AC	Plug,3Pin
CNP602	QCNCWZG23AWZZ	J	AE	Plug,23Pin
CNP701	QCNCWZF23AWZZ	J	AE	Plug,23Pin
CNP702	QCNCWZF13AWZZ	J	AC	Plug,13Pin
CNP801	QCNCM049BAWZZ	J	AC	Plug,2Pin
CNP802	92LCONE8P5267X	J	AD	Plug,5Pin
CNP803	QCNWM050CAWZZ	J	AB	Plug,3Pin
CNP804	92LCONE9P53253	J	AB	Plug,9Pin
CNS1A/B	QCNWN1537AWZZ	J	AG	Connector Ass'y,7/7Pin
CNS2A/B	QCNWN1538AWZZ	J	AG	Connector Ass'y,8/8Pin
CNS3A/B	QCNWN1539AWZZ	J	AE	Connector Ass'y,6/6Pin
CNS806	QCNWN1542AWZZ	J	AC	Connector Ass'y,2Pin
⚠ F801,802	92LFUSE-T402D	J	AD	Fuse,5A/125V
⚠ F803,804	92LFUSET502D	J	AC	Fuse,4A/125V
⚠ F805	92LFUSET202D	J	AC	Fuse,2A/250V
FC701	QCNWN1564AWZZ	J	AG	Flat Cable,23Pin
FC702	QCNWN1544AWZZ	J	AE	Flat Cable,13Pin
FL701	VVKBJ744GNK-1	J	BD	FL Display
IC99	VHPTOTX178A-1	J	AP	Optical Fiber Data Link, TOTX178A
FW907	QCNWN1610AWZZ	J	AD	Flat Wire,5Pin
JK201	QSOCJ0409AWZZ	J	AF	Jack,Video In
JK501	QSOCJ0111AWZZ	J	AD	Sub Woofer Output
JK601	QJAKM0004AWZZ	J	AF	Jack,Headphones
JOG701	QSW-Z0010AWZZ	J	AF	Switch,Push Type [Jog]
LG901,902	QLUGP0001AWZZ	J	AC	Lug
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
M3	92LTWMEN7E6Y	J		Motor with Worm Pulley [T/T Up/Down Loading]
M901	RMOTV0027AWZZ	J	AM	Motor,Air Cooling Fan
RL801	RRLYD0001SJZZ	J	AQ	Relay
RL901,902	RRLYD0014AWZZ	J	AP	Relay
RX701	VHLN63H380A-1	J	AK	Remote Sensor,N63H380A
SO901	QTANA1003AWZZ	J	AG	Terminal,Speaker
SW1	SWMPU10780MLB	J		Switch,Push Type [Open/Close]
SW2	SWMPU11470MLB	J		Switch,Push Type [Clamp]
SW3	SWMPU11470MLB	J		Switch,Push Type [Disc Number]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]
SW701	92LSWICH1401AT	J	AC	Switch,Key Type [CD]
SW702	92LSWICH1401AT	J	AC	Switch,Key Type [TAPE]
SW703	92LSWICH1401AT	J	AC	Switch,Key Type [TUNING DOWN]
SW704	92LSWICH1401AT	J	AC	Switch,Key Type [MEMORY/SET]
SW705	92LSWICH1401AT	J	AC	Switch,Key Type [REV]
SW706	92LSWICH1401AT	J	AC	Switch,Key Type [FF]
SW707	92LSWICH1401AT	J	AC	Switch,Key Type [PLAY]
SW708	92LSWICH1401AT	J	AC	Switch,Key Type [STOP]
SW710	92LSWICH1401AT	J	AC	Switch,Key Type [REC]
SW711	92LSWICH1401AT	J	AC	Switch,Key Type [TUNING UP]
SW712	92LSWICH1401AT	J	AC	Switch,Key Type [VIDEO]
SW713	92LSWICH1401AT	J	AC	Switch,Key Type [TUNING]

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
SW714	92LSWICH1401AT	J	AC	Switch,Key Type [DIMMER]
SW715	92LSWICH1401AT	J	AC	Switch,Key Type [X-BASS]
SW716	92LSWICH1401AT	J	AC	Switch,Key Type [EQUAL]
SW717	92LSWICH1401AT	J	AC	Switch,Key Type [NORMAL]
SW718	92LSWICH1401AT	J	AC	Switch,Key Type [PHANTOM]
SW719	92LSWICH1401AT	J	AC	Switch,Key Type [BY-PASS]
SW720	92LSWICH1401AT	J	AC	Switch,Key Type [POWER]
SW721	92LSWICH1401AT	J	AC	Switch,Key Type [CLOCK]
SW722	92LSWICH1401AT	J	AC	Switch,Key Type [TIMER]
SW728	92LSWICH1401AT	J	AC	Switch,Key Type [DISC 1]
SW729	92LSWICH1401AT	J	AC	Switch,Key Type [DISC 2]
SW730	92LSWICH1401AT	J	AC	Switch,Key Type [DISC 3]
SW731	92LSWICH1401AT	J	AC	Switch,Key Type [DISC SKIP]
SW732	92LSWICH1401AT	J	AC	Switch,Key Type [OPEN/CLOS]

CD MECHANISM PARTS

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
301	NGERH0011AWZZ	J	AC	Gear,Middle
302	NGERH0012AWZZ	J	AC	Gear,Drive
303	MLEVP0080AWZZ	J	AC	Rail,Guide
304	NSFTM0020AWFW	J	AD	Shaft,Guide
305	92LM-CUSN1524A	J	AC	Cushion
⚠ 306	92LHPC1LXASY	J	BD	Pickup Unit Ass'y
306- 1	————		—	Pickup Unit (Not Replacement Item)
306- 2	NGERR0043AFZZ	J	AC	Gear,Rack
306- 3	MSPRC0961AFZZ	J	AA	Spring,Rack
701	XBSSD26P06000	J	AA	Screw,ø2.6×6mm
702	XHBSD20P05000	J	AA	Screw,ø2×5mm
703	XBBSD20P03000	J	AA	Screw,ø2×3mm
704	LX-WZ1070AFZZ	J	AA	Washer,ø1.5×ø3.8×0.25mm
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]

CABINET PARTS

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
201	92LCAB3306AASY	J		Front Cabinet Ass'y
201- 1	————		—	Front Panel (Not Replacement Item)
201- 2	GDORF0074AWSA	J	AE	Holder,Cassette,Tape 1
201- 3	GDORF0075AWSA	J	AE	Holder,Cassette,Tape 2
201- 4	GCOVA1251AWSA	J	AH	Cover,Cassette,Tape 1
201- 5	GCOVA1252AWSA	J	AH	Cover,Cassette,Tape 2
201- 6	HDECQ0521AWSA	J	AD	Panel,Cassette,Tape 1
201- 7	HDECQ0522AWSA	J	AD	Panel,Cassette,Tape 2
201- 8	HDECQ0539AWSA	J	AK	Panel,Amp.
201- 9	HDECQ0524AWSA	J	AG	Decoration Plate
201-10	JKNBZ0655AWSA	J	AF	Knob,Disc Control
201-11	JKNBZ0656AWSA	J	AG	Knob,Center Operation
201-12	JKNBZ0657AWSA	J	AF	Knob,Power/Clock
201-13	JKNBZ0672AWSA	J	AF	Knob,Function,A
201-14	JKNBZ0673AWSA	J	AF	Knob,Function,B
201-15	JKNBZ0660AWSA	J	AF	Knob,Tuning
201-16	JKNBZ0661AWSA	J	AE	Knob,Dimmer
201-17	HDECQ0526AWSA	J	AC	Volume Light Up Ring
201-19	GCOVA1257AWSA	J	AB	Cover,LED,Play/Stop
201-20	GCOVA1256AWSA	J	AB	Cover,LED,Preset
201-21	MLIFP0008AWZZ	J	AD	Damper
201-22	MSPRD0092AWFJ	J	AB	Spring,Cassette,Tape 1
201-23	MSPRD0093AWFJ	J	AB	Spring,Cassette,Tape 2
201-24	92LBADGE1671A	J	AC	Badge,SHARP
201-25	JKNBZ0663AWSA	J	AE	Knob,Dolby
201-26	GCOVA1258AWSA	J		LED,Power Top
201-27	GCOVA1265AWSA	J		LED,Function Top A
201-28	GCOVA1266AWSA	J		LED,Function Top B
201-29	GCOVA1267AWSA	J		LED,Function Top C
201-30	GCOVA1268AWSA	J		LED,Function Top D
202	92LCAB3303BASY	J		Side Panel Ass'y,Left
202- 1	————		—	Side Panel,Left (Not Replacement Item)
202- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
203	92LCAB3303CASY	J		Side Panel Ass'y,Right
203- 1	————		—	Side Panel,Right (Not Replacement Item)
203- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
204	92LCOV3303AASY	J		CD Tray Cover Ass'y
204- 1	————		—	Cover,CD Tray (Not Replacement Item)
204- 2	GCOVA1254AWSA	J	AE	Cover,CD Tray Panel,Left
204- 3	GCOVA1255AWSA	J	AE	Cover,CD Tray Panel,Right
205	GCAB-1184AWSA	J	AP	Top Cabinet
206	GITAR0543AWSA	J	AN	Rear Panel [For U.S.A./Central America]
206	GITAR0544AWSA	J		Rear Panel [For Mexico]
206	GITAR0545AWSA	J		Rear Panel [For Canada]
207	JKNBK0072AWSA	J	AE	Knob,Volume
208	LANGK0110AWFW1	J	AD	Bracket,Cassette Lock,Tape 1
209	LANGK0111AWFW1	J	AD	Bracket,Cassette Lock,Tape 2
210	LANGK0188AWFW	J	AF	Bracket,Fan Support
211	LANGT0042AWFW	J	AC	Bracket,PWB Support
212	LBSHC0005AWZZ	J	AD	Bushing,AC Power Supply Cord
213	LCHSM0096AWFW	J	AR	Main Chassis
214	LHLDZ1242AWZZ	J	AE	Holder,FL Display
215	LHLDZ1243AWZZ	J	AC	Holder,LED,A
219	MLOKC0003AWZZ	J	AD	Lock Lever,Cassette,Tape 1
220	MLOKC0004AWZZ	J	AD	Lock Lever,Cassette,Tape 2
221	MSPRD0109AWFJ	J	AB	Spring,Cassette Lock,Tape 1
222	MSPRD0110AWFJ	J	AB	Spring,Cassette Lock,Tape 2
223	NFANP0001AWZZ	J	AD	Rotary Fan
224	92LPT0331105	J	AM	Turntable
225	PCUSG0022AWZZ	J	AB	Cushion,Leg
226	PRDAR0149AWFW	J	AP	Heat Sink,Main
227	PRDAR0150AWFW	J	AS	Heat Sink,Sub,A
228	PRDAR0151AWFW	J	AG	Heat Sink,Sub,B
⚠ 229	QACCD0022AWZZ	J	AM	AC Power Supply Cord
230	QCNWN1615AWZZ	J	AC	Lug Wire
⚠ 231	QFSHD0001AWZZ	J	AB	Holder,Fuse
232	92LBE231616	J		Belt
233	92LCSPR1431C	J	AA	Spring,Ring
234	92LEVA0330702	J		Velvet Carpet,Cushion
235	92LMAG0104302	J		Magnet
237	92LNBAND1318A	J	AA	Nylon Band,80mm
238	92LNM0305401	J		Velvet Carpet
239	92LPT0303002	J	AB	Roller
240	92LPT0304303	J	AB	Lever,Stop
241	92LPT0304304	J		Stopper
242	92LPT0304305	J	AE	Lever,Lock
243	92LPT0304306	J		Stabilizer
244	92LPT0304307	J	AC	Support,Cam
245	92LPT0304308	J		Lock Gear Pin
246	92LPT0304309	J		Cap,Pulley Stopper
247	92LPT0305413	J		Cam Gear Lower
248	92LPT0309506	J	AD	Gear,Turntable Drive
249	92LPT0309507	J	AD	Gear,Open/Close Drive
250	92LPT0309508	J	AD	Gear,Planet
251	92LPT0309509	J	AD	Gear,Drive
252	92LPT0309510	J	AE	Gear,Pulley
253	92LPT0309511	J	AD	Gear,Middle
254	92LPT0311101	J	AB	Lever,Clamp
255	92LPT0311102	J	AC	Lever,Disc
256	92LPT0312005	J		Gear,Cam
257	92LPT0320201	J	AE	Support,Stabilizer
258	92LPT0330301	J	AU	Chassie
259	92LPT0330803	J	AK	CD,Chassis
260	92LPT0331003	J	AT	Holder,Slide
262	92LSP0304303	J		Spring,Stopper
263	92LSP0304305	J	AB	Spring,Lock Lever
264	92LSP0304306	J		Spring,Lock Gear
265	KMECB0011AWZZ	J	BH	Tape Mechanism Ass'y
266	92LMT0304302	J		Metal Plate
267	LANGK0189AWFW	J	AC	Support Bracket, Sub Heat Sink A
268	LHLDZ1244AWZZ	J		Holder,LED Dolby
269	LHLDZ1247AWZZ	J		Holder,LED Function
270	GCOVA1264AWZZ	J		Volume,Reflector A
271	PSHEP0037AWZZ	J		Sheet, Reflector A
601	XBBSD20P04000	J	AA	Screw,ø2×4mm
604	XEBSF30P12000	J	AA	Screw,ø3×12mm
605	XESSD30P10000	J	AA	Screw,ø3×10mm
606	XHBSD26P04000	J	AA	Screw,ø2.6×4mm
607	XHBSD30P06000	J	AA	Screw,ø3×6mm
608	XJBSD30P10000	J	AA	Screw,ø3×10mm
609	XJBSD30P14000	J	AA	Screw,ø3×14mm
612	LX-BZ2222AXZZ	J		Screw,Special
613	LX-HZ0082AFZZ	J	AA	Screw,ø4×8mm
614	LX-JZ0010AFFD	J	AA	Screw,ø3×10mm
616	92LSC0308RBZZ	J		Screw,ø3×8mm

PACKING PARTS (Except for U.S.A.)

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
	SPAKA0236AWZZ	J		Packing Add.,Left/Right
	SPAKC0887AWZZ	J		Packing Case [For U.S.A./Central America]
	SPAKC0909AWZZ	J		Packing Case [For Canada]
	SPAKC0910AWZZ	J		Packing Case [For Mexico]
	SPAKP0013AWZZ1	J	AC	Polyethylene Bag,Unit
	SPAKZ0573AWZZ	J	AB	Protection Sheet
	92LBAG1460C1	J	AB	Polyethylene Bag,Accessories

ACCESSORIES

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
	QANTL0007AWZZ	J	AK	AM/FM Loop Antenna
	TCAUS0042AWZZ	J	AB	Caution,Energy Star
	TINSE0281AWZZ	J		Operation Manual [For U.S.A./Central America]
	TINSK0098AWZZ	J		Operation Manual [For Canada]
	TINSZ0505AWZZ	J		Quick Guide [For U.S.A.only]
	TINSZ0504AWZZ	J		Operation Manual [For Mexico]
	TLABR1085AWZZ	J		Label,Bar Code
	TLABZ0593AWZZ	J	AB	Energy Star Label (Set)
	TLABZ0675AWZZ	J		Label,Feature,Tape 1
	TLABZ0676AWZZ	J		Label,Feature,Tape 2
	RRMCG0214AWSA	J		Remote Control
	GFTAB1022AWSB	J		Battery Lid,Remote Control

P.W.B. ASSEMBLY (Not Replacement Item)

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
PWB-A1~4	92LPWB3306MANS	J	—	Main/Display/Headphones/Digital Output (Combined Ass'y)
PWB-B	92LPWB3306PWRS	J	—	Power Supply
PWB-C	92LPWB3306CDUS	J	—	CD Servo
PWB-D	QPWBF0027AWZZ	J	AD	CD Motor (PWB Only)
PWB-E	————		—	Tape Mechanism
PWB-F	92LPC99C017	J		CD Loading Motor (PWB Only)

OTHER SERVICE PART

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
	UDSKA0004AFZZ	J	AZ	CD Optical Pickup Lens Cleaner Disc

CP-C3500

SPEAKER BOX PARTS

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
901	92LJ1924A	J		Front Panel
903	92LJ1925A	J		Net Frame Ass'y
905	92L9547C	J		Speaker Box Ass'y
907	92LP5876	J		Label,Specification
909	92LJ9774A	J		Cushion,Foot
910	92LJ9777P	J		Port Cushion
912	92LJ9802	J		Catching Holder
913	92LF1228A	J		Screw,ø4×12mm
914	92LF1080	J		Screw,ø3×10mm
916	92LJ9790	J		Felt
917	92LE5868A	J		Speaker Cord Ass'y With Capacitor
SP1,2	92LJ2828A	J		Super Tweeter
SP3,4	VSP0051TBN56A	J		Tweeter
SP5,6	VSP0013WB486A	J		Woofer

PACKING PARTS

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
	92LV45365-15	J		Polyethylene Bag,Speaker
	92LN1883F	J		Packing Add.,Front
	92LN1883R	J		Packing Add.,Rear

GBOXS0036AWM1

SPEAKER BOX PARTS CENTER SPEAKER

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
901	92LSRCNF005RS	J		Net Frame Ass'y
902	92LSRCBC006RS	J		Bottom Cabinet
903	92LSRCSC005RS	J		Speaker Cord
904	92SRCSW006RS	J		Screw,ø3×14mm
905	92LSRCPL012RS	J		Label,Parts Code
906	92LSRCFT001RS	J		Cushion
SP1	VSPA010PB146A	J		Speaker

GBOXS0037AWM1

SPEAKER BOX PARTS REAR SPEAKER

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
901	92LSRCNF004RS	J		Net Frame Ass'y
902	92LSRCBC007RS	J		Bottom Cabinet
903	92LSRCSC006RS	J		Speaker Cord
904	92LSRCSW006RS	J		Screw,ø3×14mm
905	92LSRCPL013RS	J		Label,Parts Code
SP1,2	VSPA010PB15CA	J		Speaker

PACKING PARTS

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
	92LSRCTP010RS	J		Packing Add.,Top
	92LSRCBP011RS	J		Packing Add.,Bottom
	92LSRCPE008RS	J		Polyethylene Bag,Speaker

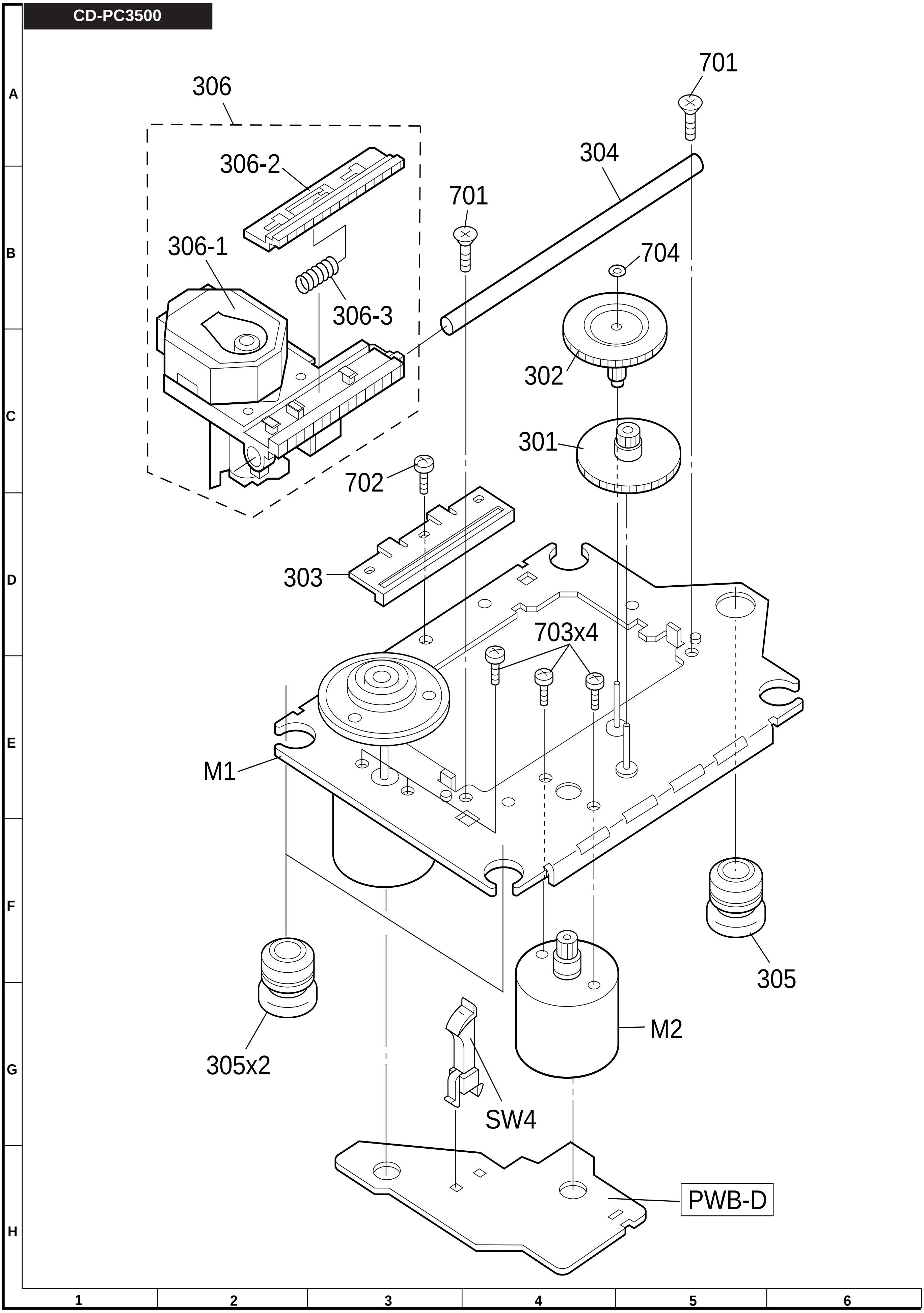
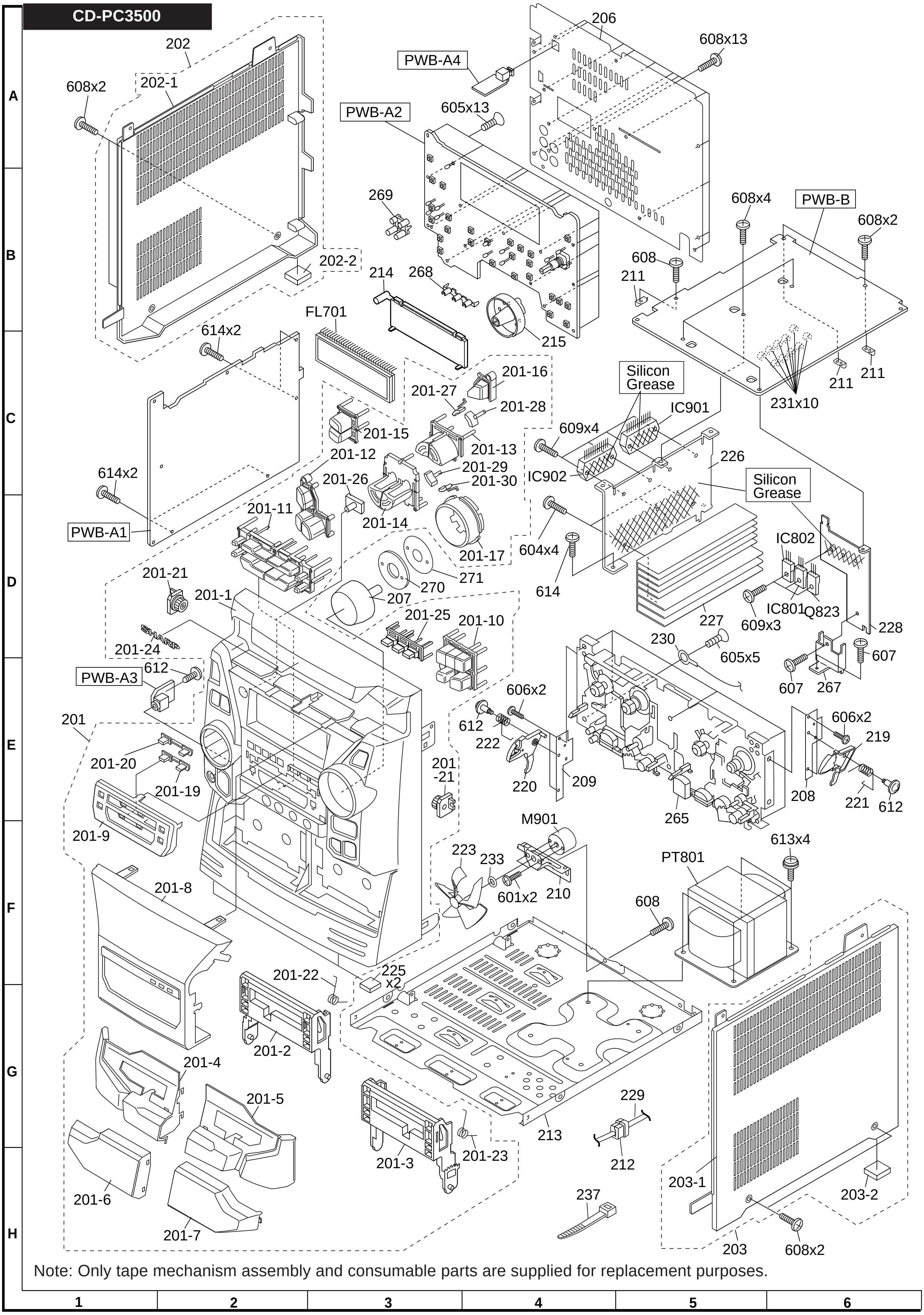


Figure 8 CD MECHANISM EXPLODED VIEW



Note: Only tape mechanism assembly and consumable parts are supplied for replacement purposes.

Figure 9 CABINET EXPLODED VIEW (1/2)

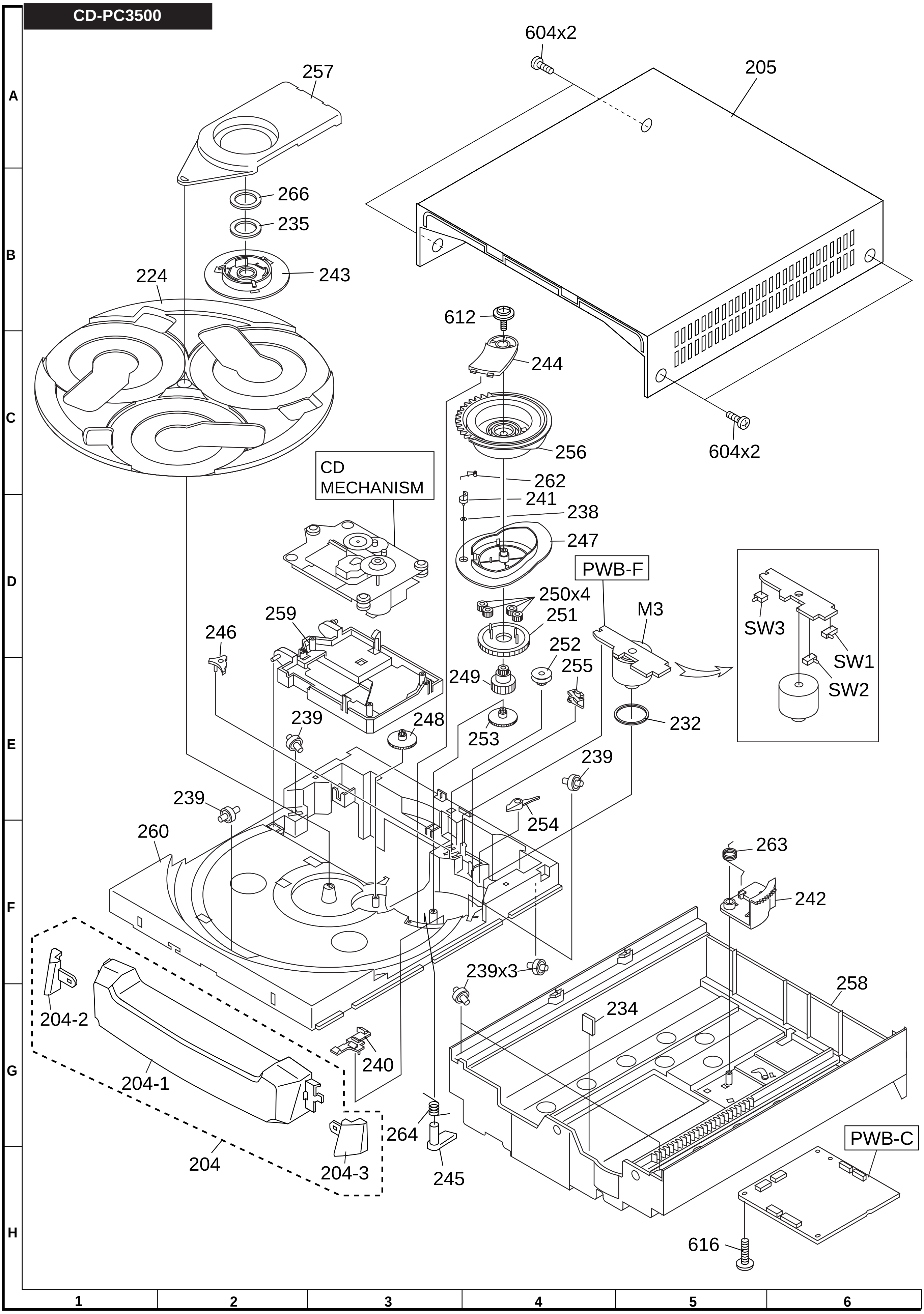


Figure 10 CABINET EXPLODED VIEW (2/2)

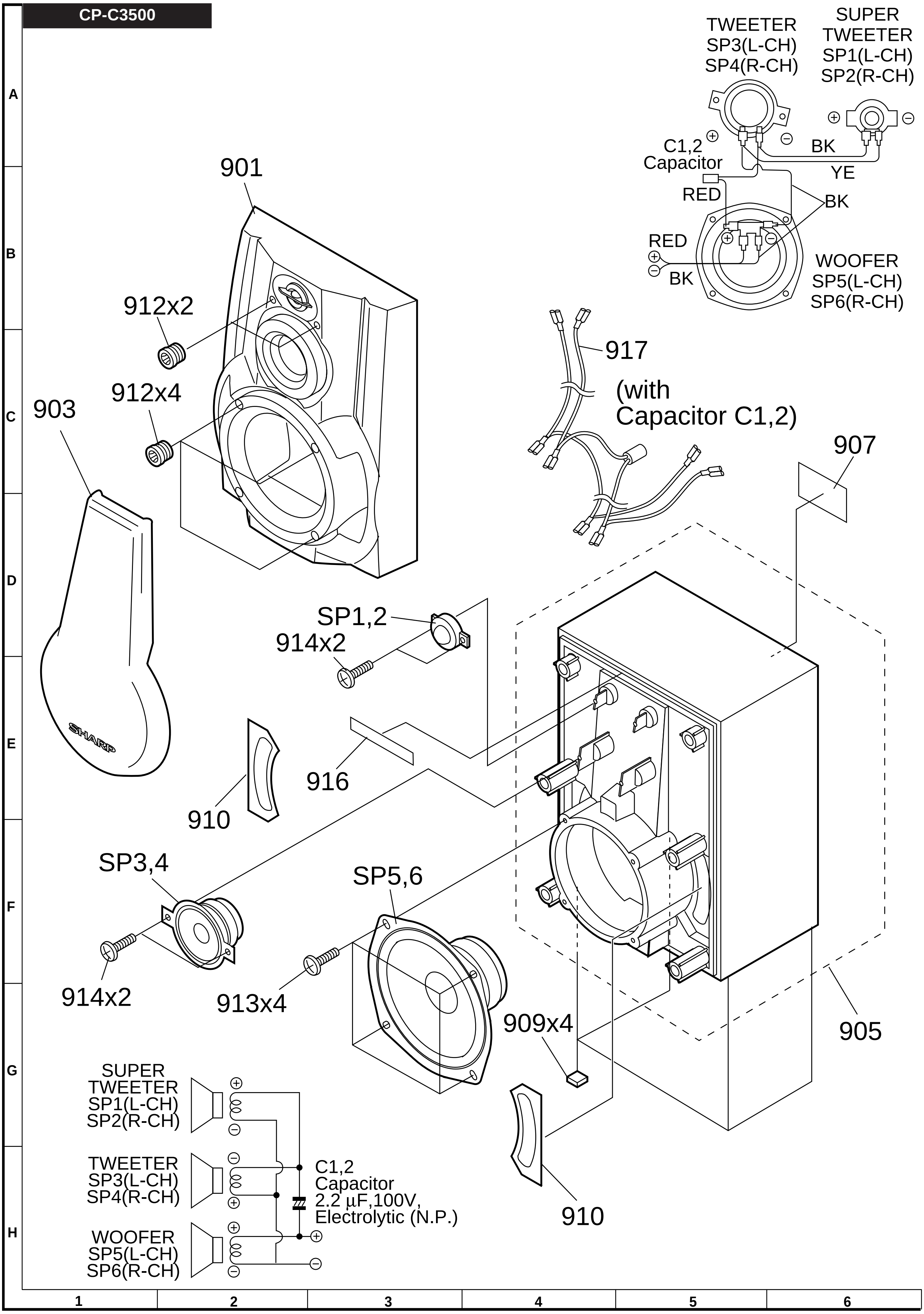


Figure 11 SPEAKER EXPLODED VIEW (1/2)

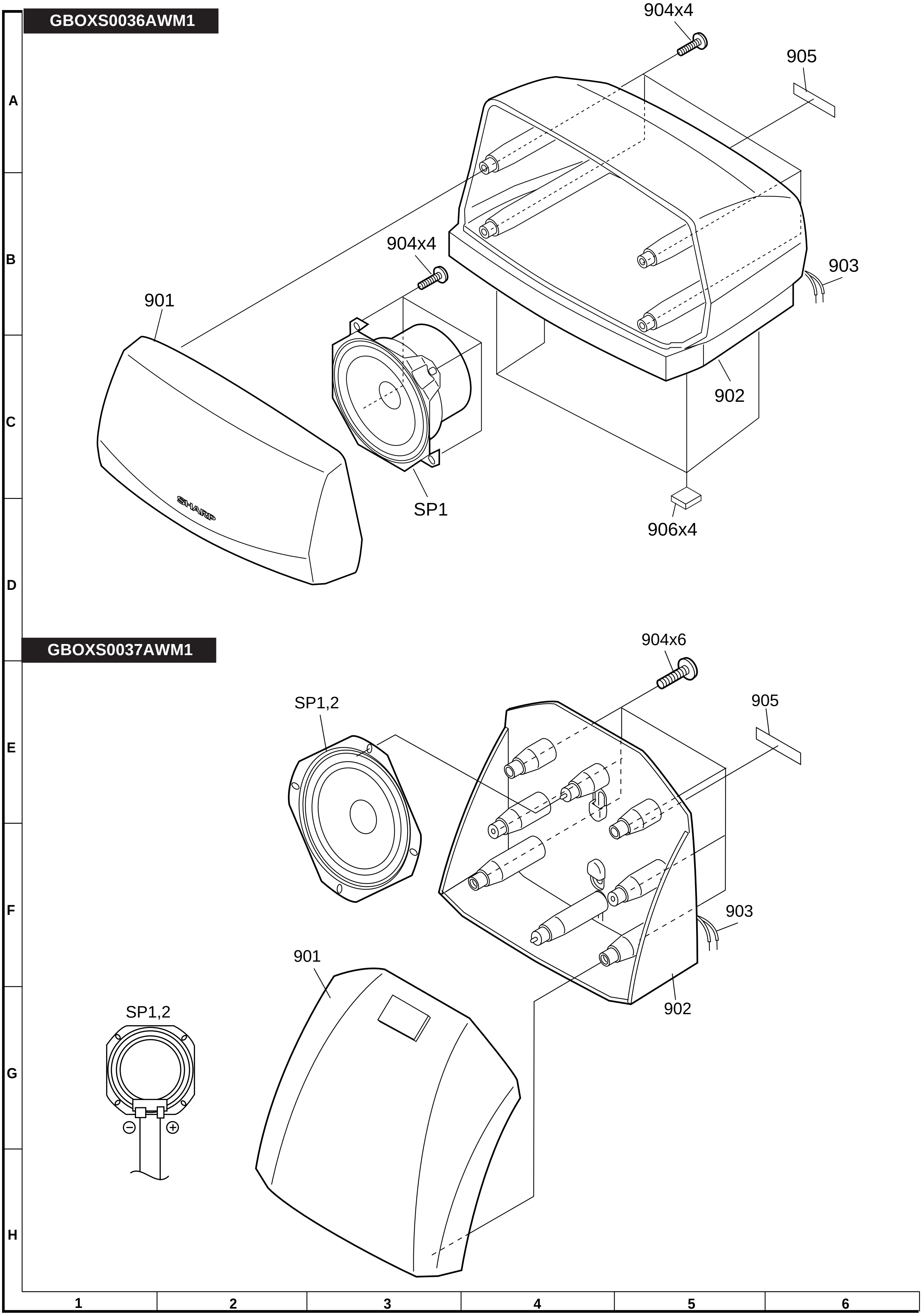
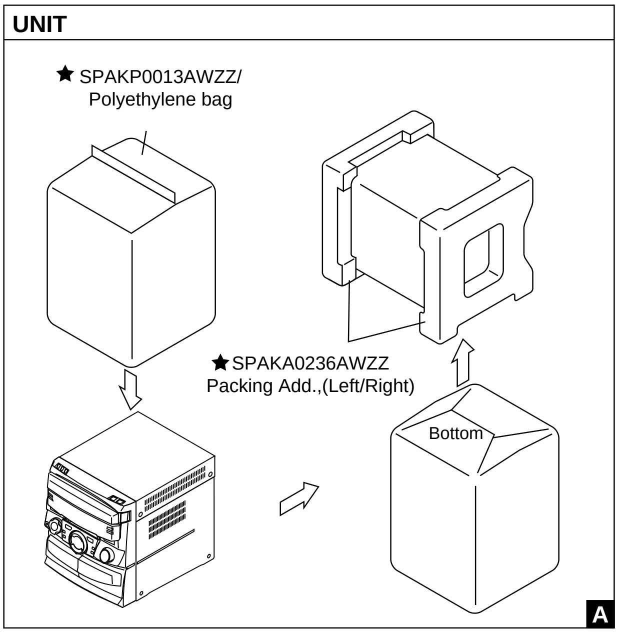
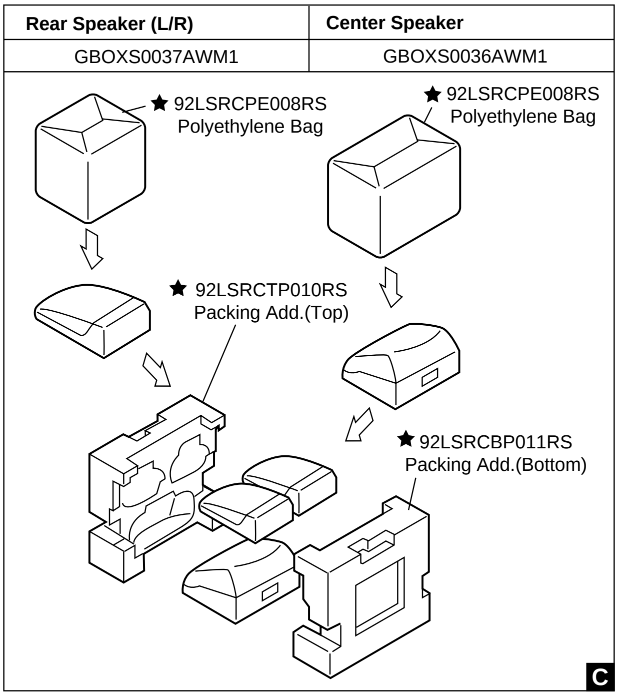


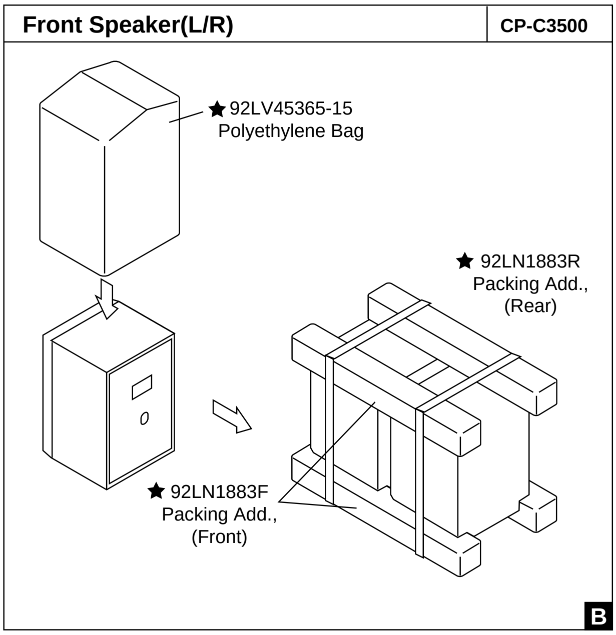
Figure 12 SPEAKER EXPLODED VIEW (2/2)

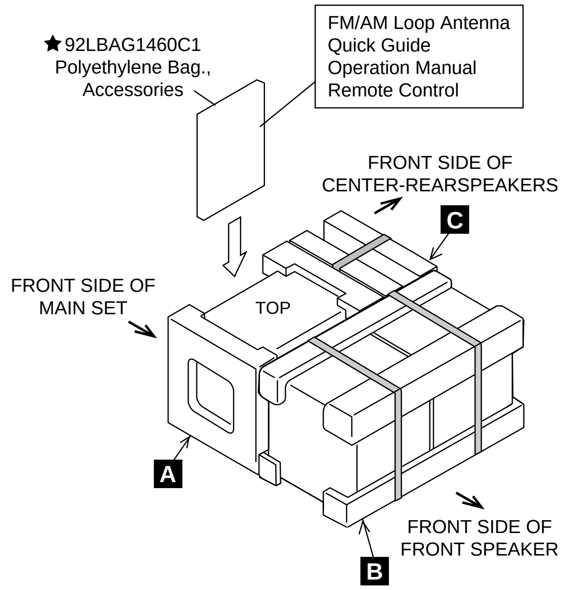
PACKING OFF THE SET (For U.S.A. Only)

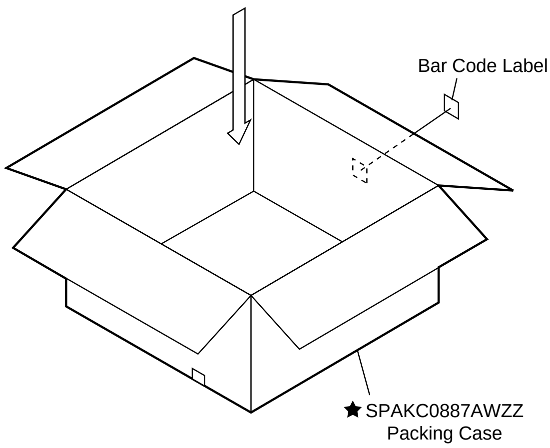
Setting position of switches and knobs	
Tape Mechanism	STOP











★ Not Replacement Item

— MEMO —

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